VAUTOMATION DIRECT

Pilot Devices





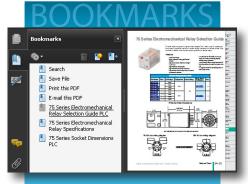














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Pilot Devices

mPIL-1

Quality pilot devices at incredible prices order today, install tomorrow Fuji Electric

Fuji 22mm and 30mm metal pilot devices

We offer a full line of Fuji 22mm pilot devices such as illuminated and non-illuminated pushbuttons, selector switches, joysticks and buzzers. We also carry Fuji 30mm non-illuminated pushbuttons which include a large 65mm operator for added visibility and easy operation.

GCX series 22mm metal pilot devices

We have teamed up with European partners to offer you even more quality options in 22mm metal operator switches and pushbuttons. The GCX series is a complete line of illuminated or non-illuminated momentary pushbuttons, emergency stop buttons, rotary switch products and LED indicator lights.

GCX series 22mm plastic pilot devices

22mm plastic pushbuttons - a rugged yet economical line of plastic pilot devices for your operator panel designs. These are made with fiberglass reinforced thermoplastic and can be used as a direct replacement for existing 22mm metal pilot devices.

PATLITE Slim Design LED Stacklights

PATLITE's stacklight slim design systems are beautifully designed stacklights that offer a variety of body material choices that include rust-free aluminum, ABS or shock-resistant polycarbonate. All models use LEDs for reliable bright and efficient lighting. Various models available for your specific needs with features that include direct-mounting, stackable, impact and heat resistance, buzzer options, IP69k ratings (LS7 model only), and many more options.

- · Modular system allows combination as required
- 25, 30, 40 and 70mm diameter
- Red, green, amber, blue, and white colors available

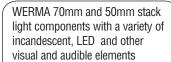
WERMA modular stack lights

WERMA's modular stack light system offers you total flexibility since it lets you choose for a completely free combination of optical and audible signal elements. The bayonet mechanism allows elements to be mechanically and electrically connected within seconds.

This means that elements can be safely and easily changed (contact-voltage proof) without the need for tools.

- Signal elements in common voltages (24V DC and 115V AC)
- Modular system allows combination as
- 70 and 50mm diameter (not all features are available on 50mm models)
- Red, green, blue, yellow and clear colors available
- Siren with self adjusting sound output just one of a wide range of audible elements





- Incandescent Permanent
- Xenon Flashing
- LED Permanent
- LED Blinking
- · LED Rotating
- · LED Flashing

WERMA signaling devices

Signaling devices from WERMA include permanent, flashing and rotating beacons in various diameters, colors and mounting options, as well as audible







Cutler-Hammer 30mm NEMA HT800 series

We took advantage of the experience of Cutler-Hammer engineering to take existing product technology and make it better. We proudly offer you the HT8 series of 30mm pilot devices from Cutler-Hammer.

Cutler-Hammer E22 series 22mm non-metal pushbuttons and switches

The 22mm pushbutton line offers an array of functional, smartly-styled illuminated and non-illuminated push buttons, selector switches, and more.



- 22mm non-metal pilot devices
- Flush, extended, illuminated, mushrooms, E-stops, and a full line-up of switches

Killark Hazardous Location Controls

Assemblies: factory sealed <u>and</u> unsealed models available

- Pushbutton Control Station
- Pilot Light Control Station
- Pushbutton/Pilot Light Combo Control Station
- Mushroom Pushbutton Control Station
- Selector Switch Control Station
- Device/Splice Boxes
- Accessories and more



Schmersal control and signalling devices

These devices are specially designed to meet an ingress protection rating of IP69K. Specially designed for for food processing, pharmaceutical, and medical applications where special cleaning requirements and prevention of cross-contamination are required.

Schmersal control and signaling devices include:

- Illuminated & Non-illuminated 22mm IP69K Plastic Pushbuttons
- Non-illuminated IP69K Mushroom Pushbuttons
- IP69K Emergency Stop Pushbuttons
- IP69K Indicator Lights
- Non-illuminated 22mm IP69K Plastic Selector Switches





SCHMERSAL

Schmersal contact blocks and light terminal blocks

These contact blocks and light terminal blocks are designed for low voltage applications and include a self-cleaning bridge system known as Elan four-way system. Their quality construction provides high resistance to shock and vibrations. Contact blocks are available for various NO/NC configurations and the light terminal blocks are available in various colors and voltages ranging from 115 - 230 VAC and for 24V AC/DC.





IDEM Emergency Stop Control Stations

IDEM E-Stop control stations are designed to provide emergency stop protection for exposed conveyors, machinery, etc. Both ES and ESL series E-stop switches are available with button protection guard and padlock holes for maintenance lock off.

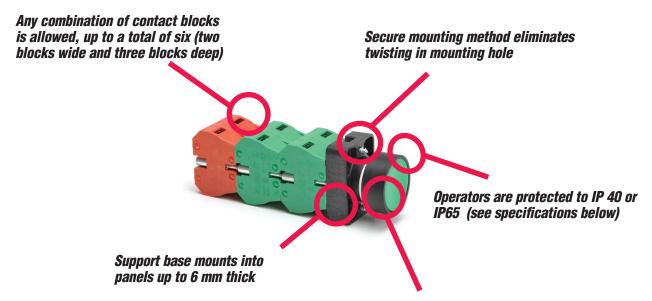
Double and single foot switches

Choose these switches for foot switch-operated machines such as shearing machines, spinning machines, spinning lathes, machine tools, wrapping machines, riveting machines, and riveting presses. AutomationDirect stocks foot switches in safety anti-trip, free moving and free moving maintained operational formats.



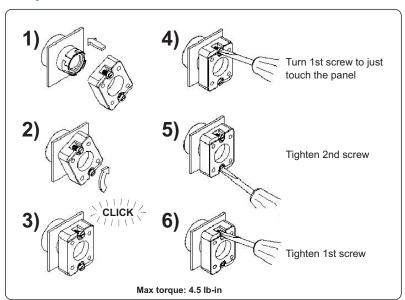
GCX Series 22mm Plastic Pilot Devices

Features



Fiberglass reinforced thermoplastic bezel

Easy installation







All indicators offer side wire entry with back screw terminals for easy wiring



Self-cleaning silver contacts provide reliable, low-energy switching

Contacts rated A300 (Refer to E22 Series mounting/contact rating section for details)



Pressure plate wiring terminals for easy, secure wiring, accepting up to 14 AWG wire

Clear contact block for illustration purposes. Clear contact blocks are not available for sale from AutomationDirect.

GCX/ECX Series 22mm Plastic Pilot **Devices Selection Guide**



Flush

- Momentary 30 mm operators
- · Available in six colors: black, red, yellow, blue, white and green
- · One contact block included
- ON/OFF models also available



Allen-Bradley: \$55.16* (800F-MX10, 800F-ALM



Extended

- Momentary 30 mm operators
- · Available in six colors: black, red, yellow, blue, white and green
- One contact block included \$5.00 (GCX3110)

Allen-Bradley: \$58.05* (800F-MX10, 800F-ALM + 800FP-E2)



Two way

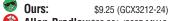
- · Two way on/off control
- · With or without illuminated indicators
- One NO and one NC contact block included





Illuminated

- · Available in clear, red, yellow, blue, white and green
- · Momentary and push-push styles
- Flush or extended operators available
- 24 and 120-volt models
- · Incandescent and LED models
- · One contact block included



Allen-Bradley:\$62.86* (800F-MX10, 800F-ALM + 800FP-LF3)



- · Available in momentary, twist-to-release, and key release models
- One contact block included
- · Also available in incandescent and LED
- illuminated models

\$9.25 (GCX3131)

Allen-Bradley: \$85.39* (800F-MX10, 800F-ALM



Selector switches

- · Two and three-position in spring return and maintained, non-illuminated and illu-
- Incandescent and LED models
- Contact block included

\$7.25 (GCX3300)

Allen-Bradley: \$62.48* (800F-MX10, 800F-ALM + 800FP-SM22)



Key switches

- · Two and three-position
- Contact blocks included

\$13.50 (GCX3420)

Allen-Bradley: \$92.94* (800F-MX10, 800F-ALM + 800FP-KM21)



Joysticks

- Two and four-position, maintained and momentary
- · Contact blocks included



Indicator lights

- · Available in popular colors
- 24 and 120-volt models
- Frosted diffuser for even lighting
- · Incandescent or LED indicators



Accessories



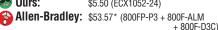






 Bulbs six-hole enclosures

 Protective actuator



and LEDs caps

^{*}All prices are U.S. published prices. AutomationDirect's prices are from April 2014 Price List. Prices and specifications may vary by dealer and configuration. Allen-Bradley industrial control component prices from www.rockwellautomation.com/en/e-tools 2/28/2014

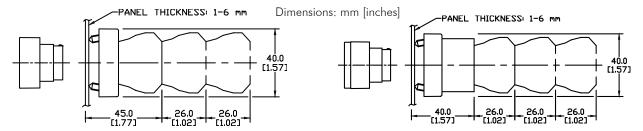
GCX Series 22mm Plastic Pilot Devices Specifications

Assembly information

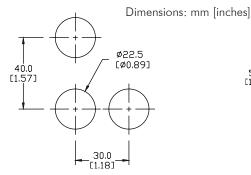
These pushbuttons and indicator lights are supplied with the appropriate contact blocks, unless otherwise indicated. Use these drawings as a guide to make sure there is adequate clearance behind the panel.

Pushbuttons and selector switches

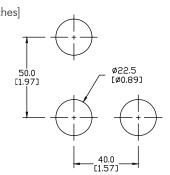
Illuminated pushbuttons and selector switches/indicator lights



Mounting

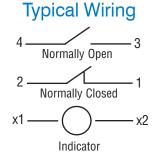


This layout is suitable if all switches are 230V or less and the same polarity.



This layout is suitable if all switches are 400V or less and different polarity.

NOTE: Contact blocks can be arranged up to three deep by two wide.



Specifications

These specifications apply to all the GCX and ECX 22mm plastic pushbuttons and switches.

Physical Specifications				
Standards Reference	CEI EN 60947-5-1, CSA C22-2 n.14			
Approvals	UL File E189258, IMQ (where specified)			
Enclosure Material	Fiberglass reinforced thermoplastic			
Contacts Material	Silver			
Protection Degree	IP 40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP 65 for all others. (See Appendix of this catalog for explanation of IP ratings according to IEC 144 CEI 70-1.)			
Electric Shock Protection	IEC 536, Class II			
Temperature Ratings	Storage: -40° -to 80°C (-40° to 176° F) Operating: -25° to +70°C (-13° to 158° F)			
Working Positions	All working positions are allowed			
Mechanical Life	Pushbuttons, selector switches, joy stick switches: 1,000,000 operations Emergency mushrooms and push-push pushbuttons: 300,000 operations			
Positive Opening Operation	(according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation			

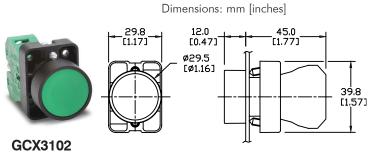
Elect	Electrical Specifications				
Rated Thermal Current (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)				
Rated Insulation Voltage	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508				
Dielectric Strength	3kV (1 second)				
Insulation Resistance	2MΩ min. (500VDC)				
Initial Contact Resistance	≤25m Ω				
Short-Circuit Protection*	Cartridge fuses gl 10 A-500V 10, 3x38l1 100 KA				
Terminal Markings	According to CENELEC EN 50013				
Connections	Single screw with non-loosening plate clamp,14AWG max., Tighten to 0.8Nm max				
Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow action, positive opening				
Operation Frequency	3600 operations per hour max.				
Utilization Category	AC15 (Control of AC electromagnetic loads) 24 volts AC at 10 amps 130 volts AC at 6.5 amps DC13 (Control of DC electromagnetic loads) 24 volts DC at 1.5 amps 110 volts DC at 0.5 amps				

*Note: Recommended, not supplied

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

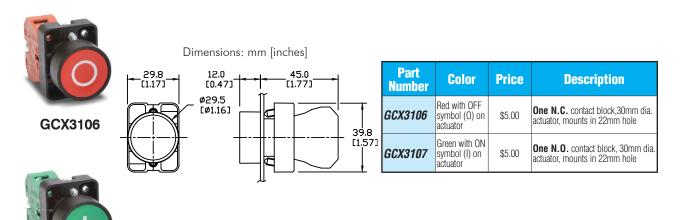
GCX Series 22mm Plastic Pushbuttons

Momentary flush pushbuttons with protective plastic ring (30mm dia. actuator)



Part Number	Color	Price	Description
GCX3100	Black	\$4.75	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole
GCX3101	Red	\$4.75	One N.C. contact block, 30mm dia. actuator, mounts in 22mm hole
GCX3102	Green	\$4.75	
GCX3103	Yellow	\$4.75	One N.O. contact block, 30mm dia.
GCX3104	Blue	\$4.75	actuator, mounts in 22mm hole
GCX3105	White	\$4.75	

Momentary Flush ON/OFF pushbuttons with protective plastic ring (30mm dia. actuator)



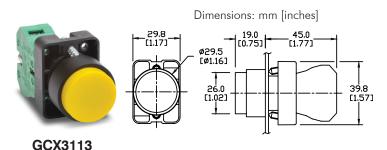
For accessories, see 22mm Plastic Pilot Device Accessories in this section.

GCX3107

tPIL-4 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX Series 22mm Plastic Pushbuttons

Momentary extended pushbuttons



Part Number	Color	Price	Description
GCX3110	Black	\$5.00	One N.O. contact block, extended 30mm dia. actuator, mounts in 22mm hole
GCX3111	Red	\$5.00	One N.C. contact block, extended 30mm dia. actuator, mounts in 22mm hole
GCX3112	Green	\$5.00	
GCX3113	Yellow	\$5.00	One N.O. contact block, extended 30mm dia. actuator, mounts in
GCX3114	Blue	\$5.00	22mm hole
GCX3115	White	\$5.00	

Double-headed momentary pushbuttons

Part Number	Price	Double-headed Momentary Pushbuttons Description
GCX3150	\$9.50	Double-headed for on/off control, One N.O. and one N.C. contact block, fits in 22mm dia. hole, without symbols
GCX3151-24	\$14.50	24VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole
GCX3151-120	\$15.00	120VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole
GCX3152	\$10.00	Double-headed for on/off control. One N.O. and one N.C. contact block, fits in 22mm dia. hole. With "ON" (I) and "OFF" (0) symbols
GCX3153-24*	\$15.00	24VDC/VAC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block
GCX3153-120*	\$15.50	120VDC/AC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block

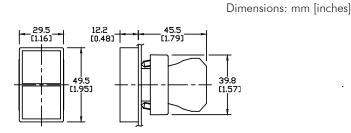
^{*} Note: Lamp data in 22mm Plastic Pilot Device Accessories in this section.



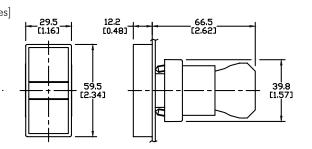
GCX3152 (with on/off symbols)



GCX3151-24



GCX3150, GCX3152 models



GCX3151-24, GCX3153-24, GCX3151-120, GCX3153-120 models

GCX Series 22mm Plastic Pushbuttons without Contact Block

Momentary flush pushbutton operator (without contact block) (30mm dia. actuator)

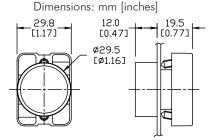




Part Number Color **Price Description** 22mm plastic pushbutton operator, flush, includes 30mm GCX3100-SC Black \$2.50 diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole. 22mm plastic pushbutton operator, flush, includes 30mm GCX3101-SC Red \$2.50 diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole. 22mm plastic pushbutton operator, flush, includes 30mm diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole. GCX3102-SC Green \$2.50

GCX3100-SC

GCX3101-SC

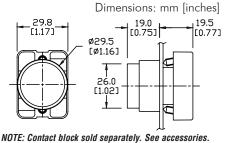


NOTE: Contact block sold separately. See accessories.

Momentary extended pushbutton operator (without contact block) (30mm dia. actuator)



GCX3111-SC



For accessories, see 22mm Plastic Pilot Device Accessories in this section.

Part Number	Color	Price	Description
GCX3110-SC	Black	\$2.50	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.
GCX3111-SC	Red	\$2.50	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.
GCX3112-SC	Green	\$2.50	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.

Contact Blocks

Contact blocks are availble for all these products. See accessories.



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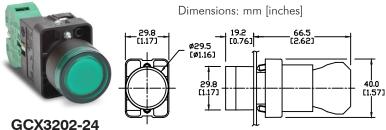
GCX Series 22mm Plastic Illuminated Pushbuttons

Momentary pushbuttons with protective plastic ring

24 models available:

- Protective plastic ring for flush mount pushbutton functionality
- Includes incandescent bulb or LED lamp
- 24V and 120V models
- · Available in six colors

All pushbuttons include operator, support base, indicating bulb, and contact block. They are shipped unassembled. Legend plate is not included and must be ordered separately. All switches in this series use replacement contact block ECX1030 (Red, N.C.) or ECX1040 (Green, N.O.), sold separately in packages of two or five.



Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp	
Incandescent						
GCX3201-24	Red	\$9.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.C. contact block	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA	
GCX3201-120	Red	\$10.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.C. contact block	ECX1904-5 5/pk, 20mA	ECX1921-2 2/pk, 5mA	
GCX3202-24	Green	\$9.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1912-2 2/pk, 26mA	
GCX3202-120	Green	\$10.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1922-2, 2/pk, 5mA	
GCX3203-24	Yellow	\$9.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA	
GCX3203-120	Yellow	\$10.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1923-2 2/pk, 5mA	
GCX3204-24	Blue	\$9.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1914-2 2/pk, 26mA	
GCX3204-120	Blue	\$10.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA	
GCX3205-24	Clear	\$9.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA	
GCX3205-120	Clear	\$10.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA	
GCX3206-24	White	\$9.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA	
GCX3206-120	White	\$10.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA	
LED						
GCX3201-24L	Red	\$14.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.C. contact block	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA	
GCX3201-120L	Red	\$15.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.C. contact block	ECX1904-5 5/pk, 20mA	ECX1921-2, 2/pk, 5mA	
GCX3202-24L	Green	\$17.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1912-2 2/pk, 26mA	
GCX3202-120L	Green	\$17.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1922-2 2/pk, 5mA	
GCX3203-24L	Yellow	\$14.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA	
GCX3203-120L	Yellow	\$15.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1923-2 2/pk, 5mA	
GCX3204-24L	Blue	\$17.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1914-2 2/pk, 26mA	
GCX3204-120L	Blue	\$17.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA	
GCX3205-24L	Clear	\$18.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA	
GCX3205-120L	Clear	\$18.50	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA	
GCX3206-24L	White	\$18.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA	
GCX3206-120L	White	\$18.50	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA	

GCX Series 22mm Plastic Illuminated Pushbuttons

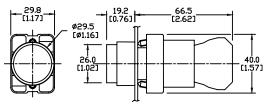
Momentary pushbuttons with extended actuator

24 models available:

- Illuminated pushbuttons and indicators come complete with bulbs.
- Includes incandescent bulb or LED lamp
- 24V and 120V models
- Available in six colors

All pushbuttons include operator, support base, indicating bulb, and contact block. They are shipped unassembled. Legend plate is not included and must be ordered separately. All switches in this series use replacement contact block ECX1030 (Red, N.C.) or ECX1040 (Green, N.O.), sold separately in packages of two or five.





Dimensions: mm [inches]

GCX3214-120

For accessories, see 22mm Plastic Pilot Device Accessories in this section.

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent	,				
GCX3211-24	Red	\$9.25	22mm plastic extended incandescent illuminated pushbutton, 24VDC/VAC. One N.C. contact block	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk, 26mA
GCX3211-120	Red	\$10.00	22mm plastic extended incandescent illuminated pushbutton, 120VDC/VAC. One N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk, 5mA
GCX3212-24	Green	\$9.25	22mm plastic extended incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk, 26mA
GCX3212-120	Green	\$10.00	22mm plastic extended incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1922-2, 2/pk, 5mA
GCX3213-24	Yellow	\$9.25	22mm plastic extended incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk, 26mA
GCX3213-120	Yellow	\$10.00	22mm plastic extended incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk, 5mA
GCX3214-24	Blue	\$9.25	22mm plastic extended incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk, 26mA
GCX3214-120	Blue	\$10.00	22mm plastic extended incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk, 5mA
GCX3215-24	Clear	\$9.25	22mm plastic extended incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk, 26mA
GCX3215-120	Clear	\$10.00	22mm plastic extended incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk, 5mA
GCX3216-24	White	\$9.25	22mm plastic extended incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk, 26mA
GCX3216-120	White	\$10.00	22mm plastic extended incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk, 5mA
LED					
GCX3211-24L	Red	\$14.00	22mm plastic extended LED illuminated pushbutton, 24VDC/VAC. One N.C. contact block	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk, 26mA
GCX3211-120L	Red	\$15.00	22mm plastic extended LED illuminated pushbutton, 120VDC/VAC. One N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2, 2/pk, 5mA
GCX3212-24L	Green	\$17.50	22mm plastic extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk, 26mA
GCX3212-120L	Green	\$17.00	22mm plastic extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk, 5mA
GCX3213-24L	Yellow	\$14.00	22mm plastic extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk, 26mA
GCX3213-120L	Yellow	\$15.00	22mm plastic extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk, 5mA
GCX3214-24L	Blue	\$17.50	22mm plastic extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk, 26mA
GCX3214-120L	Blue	\$17.00	22mm plastic extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk, 5mA
GCX3215-24L	Clear	\$19.00	22mm plastic extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk, 26mA
GCX3215-120L	Clear	\$20.00	22mm plastic extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk, 5mA
GCX3216-24L	White	\$19.00	22mm plastic extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk, 26mA
GCX3216-120L	White	\$20.00	22mm plastic extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk, 5mA

tPIL-8 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX Series 22mm Plastic Illuminated Pushbuttons

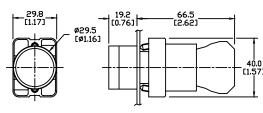
Push-push style pushbuttons with protective plastic ring

24 models available:

- · Latching Push-ON, Push-OFF actuator
- Includes incandescent bulb or LED lamp
- 24V and 120V models
- Available in six colors
- These switches are supplied with a special N.O. contact block designed for use with this actuator, but they also work with standard N.C. contacts.

All switches in this series use replacement contact block ECX1042-2 (Brown, N.O.) or ECX1030-5 or ECX1030-2 (Red, N.C.), sold separately.





Dimensions: mm [inches]

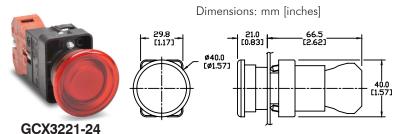
GCX3194-24

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent			'		
GCX3191-24	Red	\$10.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA
GCX3191-120	Red	\$11.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1921-2 2/pk, 5mA
GCX3192-24	Green	\$10.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1912-2 2/pk, 26mA
GCX3192-120	Green	\$11.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1922-2 2/pk, 5mA
GCX3193-24	Yellow	\$10.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA
GCX3193-120	Yellow	\$11.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1923-2 2/pk, 5mA
GCX3194-24	Blue	\$10.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1914-2 2/pk, 26mA
GCX3194-120	Blue	\$11.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA
GCX3195-24	Clear	\$10.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX3195-120	Clear	\$11.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
GCX3196-24	White	\$10.50	22mm plastic incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX3196-120	White	\$11.50	22mm plastic incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
LED		•		., ,	
GCX3191-24L	Red	\$16.50	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA
GCX3191-120L	Red	\$17.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1921-2 2/pk, 5mA
GCX3192-24L	Green	\$19.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1912-2 2/pk, 26mA
GCX3192-120L	Green	\$20.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1922-2 2/pk, 5mA
GCX3193-24L	Yellow	\$16.50	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA
GCX3193-120L	Yellow	\$17.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1923-2 2/pk, 5mA
GCX3194-24L	Blue	\$19.00	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1914-2 2/pk, 26mA
GCX3194-120L	Blue	\$20.00	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA
GCX3195-24L	Clear	\$20.50	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX3195-120L	Clear	\$21.50	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
GCX3196-24L	White	\$20.50	22mm plastic LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX3196-120L	White	\$21.50	22mm plastic LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA

GCX Series 22mm Plastic Illuminated Pushbuttons

Mushroom-style illuminated pushbuttons

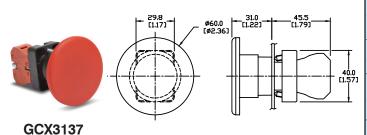
All pushbuttons include operator, support base, indicating bulb (if applicable) and contact block. They are shipped unassembled. Legend plate is not included and must be ordered separately. All switches in this series use replacement contact block ECX1030 (Red, NC) or ECX1040 (Green, N.O.), sold separately in packages of two or five.



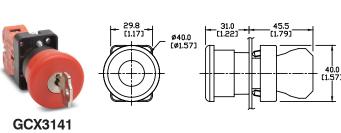
Part Number	Lamp Color	Price	Mushroom-style Illuminated Pushbuttons Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX3221-24	Red	\$11.00	22mm plastic momentary pushbutton with incandescent illuminated 40mm mushroom actuator, 24VDC/VAC, one N.C. contact block	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk, 26mA
GCX3221-120	Red	\$12.50	22mm plastic momentary pushbutton with incandescent illuminated 40mm mushroom actuator, 120VDC/VAC,one N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk, 5mA
GCX3226-24	Red	\$12.50	22mm plastic pushbutton with incandescent illuminated 40mm mushroom twist-to-release actuator, 24VDC/VAC , one N.C . contact block	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk, 26mA
GCX3226-120	Red	\$14.00	22mm plastic pushbutton with incandescent illuminated 40mm mushroom twist-to-release actuator, 120VDC/VAC , one N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk, 5mA
LED					
GCX3221-24L	Red	\$15.50	22mm plastic momentary pushbutton with LED illuminated 40mm mushroom actuator, 24VDC/VAC, one N.C. contact block	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3221-120L	Red	\$17.00	22mm plastic momentary pushbutton with LED illuminated 40mm mushroom actuator, 120VDC/VAC, one N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3226-24L	Red	\$17.50	22mm plastic pushbutton with LED illuminated 40mm mushroom twist-to-release actuator, 24VDC/VAC , one N.C . contact block	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3226-120L	Red	\$18.50	22mm plastic pushbutton with LED illuminated 40mm mushroom twist-to-release actuator, 120VDC/VAC , one N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA

Non-illuminated mushroom pushbuttons

Feature large 60mm dia. actuator and mount in standard 22mm hole.



Dimensions: mm [inches]



(key operated)

Part Number	Color	Price	Description
GCX3131	Red	\$9.25	Twist-to-release actuator with one N.C. contact block, fits in 22mm dia. hole. Has large 40mm dia. mushroom-style actuator.
GCX3134	Black	\$7.50	Momentary action with one N.O. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator.
GCX3135	Red	\$7.50	Momentary action with one N.C. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator. EMERGENCY legend plate available (see Accessories).
GCX3136	Red	\$11.50	Twist-to-release actuator with one N.C. contact block, fits in 22mm dia. hole. 60mm dia. mushroom-style actuator.
GCX3137	Red	\$9.25	Momentary action with one N.C. contact block, fits in 22mm dia. hole, has large 60mm dia. mushroom-style. EMERGENCY legend plate available (see Accessories).
GCX3139	Yellow	\$7.50	Momentary action with one N.O. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator.
GCX3141	Red	\$13.50	Key operated release with one N.C. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator. EMERGENCY legend plate available (see Accessories).

For accessories, see 22mm Plastic Pilot Device Accessories in this section.

tPIL-10 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX Series 22mm Plastic Key Switches and Selector Switches

Key-operated selector switches



GCX3420 (2-position maintained) • Keyed switches come with two keys.

Part Number	Price	Description
GCX3420	\$13.50	22mm plastic selector switch, key-operated, two-position maintained , key can be removed in all positions. One N.O. contact block. Replacement keys available
GCX3430	\$13.50	22mm plastic selector switch, key-operated, two-position spring-return from right. One N.O. contact block. Replacement keys available
GCX3470-22	\$20.00	22mm plastic selector switch, key-operated, three-position maintained , key can be removed in all positions. Two N.O. and two N.C. contact blocks. Replacement keys available



Note: Keyed switches come with two keys. All plastic 22mm keyed switches are keyed the same. Replacement keys are available. Order part no. ECX1067-2 (pkg. of 2). Keys for plastic 22mm keyed switches are not compatible with Cutler-Hammer key switches.



GCX3300

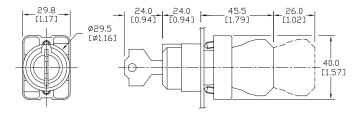
GCX3310

GCX3350

GCX3360

Note: When using switches having two-deep contact blocks (such as, Model GCX3470-22) with the 22mm plastic enclosures, be sure to use enclosures that are 74mm deep. 51 mm-deep enclosures are too shallow and the switch body will not fit.

Dimensions: mm [inches]



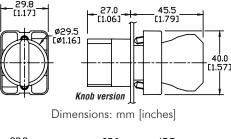
Two-position selector switches

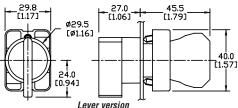


GCX3300 **Knob version**



GCX3350 Lever version





Part Number Description - 2-Position Switches Price 22mm plastic selector switch, two-position maintained, black knob. \$7.25 One N.O. contact block 22mm plastic selector switch, two-position spring-return from right, black knob. \$8.00 One N.O. contact block 22mm plastic selector switch, two-position **maintained**, black lever. \$8.00 One N.O. contact block 22mm plastic selector switch, two-position spring-return from right, black lever. \$8.50 One N.O. contact block

Contact Closure Sequence for Two-Position Switch

Contact	Closure	Sequenc	e - 2-Posit	ion Switch		
Contact Blocks		rangement rom front)	Switch Position (viewed from front)			
DIUUKS	Left	Right	Left (Note 1)	Right (Note 2)		
1 x NC	NC		Х			
IXING		NC	Х			
1 x NO	NO			Χ		
I X NU		NO		Χ		
2 x NC	NC	NC	XX			
2 x NO	NO	NO		XX		
Note 1: Left switch position deactivates all contacts.						

Note 2: Right switch position activates all contacts.

GCX Series 22mm Plastic Selector Switches

Three-position selector switches



GCX3330-22 Knob version



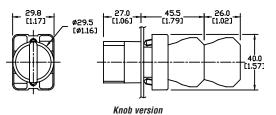
GCX3370-22 Lever version

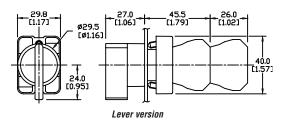
Part Number	Price	Description - 3-Position Switches
GCX3320-22	\$14.00	22mm plastic selector switch, three-position maintained , black knob, Two N.O. and two N.C. contact blocks
GCX3330-22	\$14.50	22mm plastic selector switch, three-position spring-return to center, black knob, Two N.O. and two N.C. contact blocks
GCX3370-22	\$14.50	22mm plastic selector switch, three-position, maintained. black lever, Two N.O. and two N.C. contact blocks
GCX3380-22	\$15.00	2mm plastic selector switch, three-position spring-return to center, black lever, Two N.O. and two N.C. contact blocks



Note: When using switches having two-deep contact blocks with the 22mm plastic enclosures, be sure to use enclosures that are 74 mm deep; 51 mm-deep enclosures are too shallow and the switch body will not fit.

Dimensions: mm [inches]





Contact Closure Sequence for Three-Position Switch

ı	Coi	ntact Clo	sure Se	quence - 3·	Position Su	vitch	
	Contact Blocks		rangement rom front)	Switch Position (viewed from front)			
	DIOCKS	Left	Right	Left (Note 1)	Center (Note 2)	Right (Note 3)	
	1 x NC	NC			х —	— х	
	TXNC		NC	х —	х		
	1 NO	NO		Χ			
	1 x NO		NO			Х	
	2 x NC	NC	NC	Х	XX	— Х	
	2 x NO	NO	NO	Χ		Х	

Note 1: Left switch position activates left side contacts (viewed from front).

Note 2: Center switch position deactivates all contacts.

Note 2: Right switch position activates right side contacts (viewed from front).

For accessories, see 22mm Plastic Pilot Device Accessories in this section.

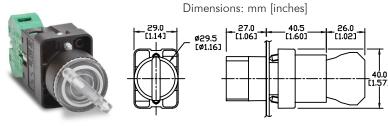
tPIL-12 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX Series 22mm Plastic Illuminated Selector Switches

Illuminated two-position selector switches

20 models available:

- · Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available



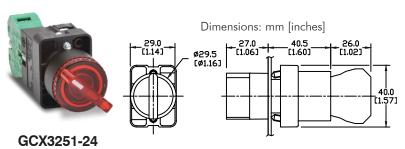
GCX3245-24

Note: For contact closure sequence, refer to preceding pages.

Spring Return

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX3241-24	Red	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3241-120	Red	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3242-24	Green	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3242-120	Green	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3243-24	Yellow	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3243-120	Yellow	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3244-24	Blue	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3244-120	Blue	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3245-24	Clear	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3245-120	Clear	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
LED					
GCX3241-24L	Red	\$15.50	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3241-120L	Red	\$15.50	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3242-24L	Green	\$18.00	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3242-120L	Green	\$18.00	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3243-24L	Yellow	\$15.50	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3243-120L	Yellow	\$15.50	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3244-24L	Blue	\$18.00	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3244-120L	Blue	\$18.00	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3245-24L	Clear	\$19.00	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3245-120L	Clear	\$20.00	22mm plastic LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

GCX Series 22mm Plastic Illuminated Selector Switches



Note: For contact closure sequence, refer to preceding pages.

Illuminated two-position selector switches

20 models available:

- Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available

Maintained

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX3251-24	Red	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3251-120	Red	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3252-24	Green	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3252-120	Green	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3253-24	Yellow	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3253-120	Yellow	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3254-24	Blue	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3254-120	Blue	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3255-24	Clear	\$11.00	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3255-120	Clear	\$11.50	22mm plastic incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
LED		'			·
GCX3251-24L	Red	\$15.50	22mm plastic LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3251-120L	Red	\$16.00	22mm plastic LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3252-24L	Green	\$17.50	22mm plastic LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3252-120L	Green	\$18.00	22mm plastic LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3253-24L	Yellow	\$15.50	22mm plastic LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3253-120L	Yellow	\$16.00	22mm plastic LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3254-24L	Blue	\$17.50	22mm plastic LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3254-120L	Blue	\$18.00	22mm plastic LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3255-24L	Clear	\$19.00	22mm plastic LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3255-120L	Clear	\$20.00	22mm plastic LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

For accessories, see 22mm Plastic Pilot Device Accessories in this section.

tPIL-14 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX Series 22mm Plastic Illuminated Selector Switches

Illuminated three-position selector switches

20 models available:

- Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available

Dimensions: mm [inches]

29.8

(1.17)

(29.5)

(1.60)

(1.60)

(1.02)

(1.02)

(1.02)

(1.17)

(1.17)

(29.16)

GCX3263-24

Note: For contact closure sequence, refer to preceding pages.

Maintained

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Bulb
Incandescent	GUIUI		· · · · · · · · · · · · · · · · · · ·	incanuescent build	LED DUIN
GCX3261-24	Red	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3261-120	Red	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3262-24	Green	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3262-120	Green	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3263-24	Yellow	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3263-120	Yellow	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3264-24	Blue	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3264-120	Blue	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3265-24	Clear	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3265-120	Clear	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
LED					
GCX3261-24L	Red	\$22.00	22mm plastic LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3261-120L	Red	\$22.50	22mm plastic LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3262-24L	Green	\$24.00	22mm plastic LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3262-120L	Green	\$25.00	22mm plastic LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3263-24L	Yellow	\$22.00	22mm plastic LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3263-120L	Yellow	\$22.50	22mm plastic LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3264-24L	Blue	\$24.00	22mm plastic LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3264-120L	Blue	\$25.00	22mm plastic LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3265-24L	Clear	\$25.50	22mm plastic LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3265-120L	Clear	\$26.00	22mm plastic LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

GCX Series 22mm Plastic Illuminated Selector Switches

Illuminated three-position selector switches

20 models available:

- · Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available

Dimensions: mm [inches] _ 26.0 [1.02] . 40.0 [1,57]

GCX3283-120

Note: For contact closure sequence. refer to preceding pages.

Spring Return

Part Number	Lamp Color	Price	Description	Standard Incandescent Bulb	Standard LED Bulb
Incandescent					
GCX3281-24	Red	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3281-120	Red	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3282-24	Green	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3282-120	Green	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3283-24	Yellow	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3283-120	Yellow	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3284-24	Blue	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3284-120	Blue	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3285-24	Clear	\$18.00	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3285-120	Clear	\$18.50	22mm plastic incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
LED					
GCX3281-24L	Red	\$22.00	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX3281-120L	Red	\$22.50	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX3282-24L	Green	\$24.50	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX3282-120L	Green	\$25.00	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX3283-24L	Yellow	\$22.00	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX3283-120L	Yellow	\$22.50	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX3284-24L	Blue	\$24.50	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX3284-120L	Blue	\$25.00	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX3285-24L	Clear	\$25.50	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX3285-120L	Clear	\$26.50	22mm plastic LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

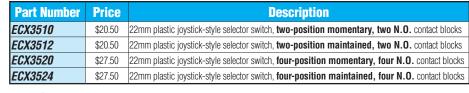
For accessories, see 22mm Plastic Pilot Device Accessories in this section.

tPIL-16 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

ECX Series 22mm Plastic Joystick Selector Switches

Joystick selector switches

Four models available





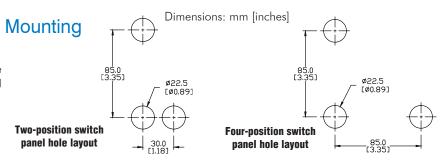


Note: Four-position switches use two special contact blocks which are not replaceable.

Note: When using switches having two-deep contact blocks (4-position joysticks) with the 22mm plastic enclosures, use enclosures that are 74mm deep; 51mm-deep enclosures are too shallow.

ECX3510(Two-position momentary) ECX3512 (Two-position maintained)

Moving the joystick UP will close contact on one side. Moving it DOWN will close contact on other side.





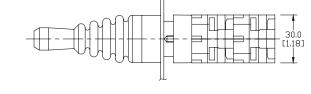
Dimensions

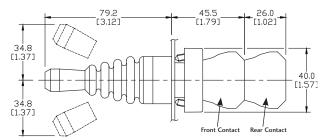
ø29.5

[ø1.16]

ECX3520 (Four-position momentary) ECX3524 (Four-position maintained)

- · Moving the joystick UP will close Green contact on one side and moving it DOWN will close Gray contact located behind it.
- Moving the joystick RIGHT will close Green contact on other side and moving it LEFT will close Gray contact located behind it.









For accessories, see 22mm Plastic Pilot Device Accessories in this section.

ECX Series 22mm Plastic Indicator Lights

Plastic incandescent indicator lights



ECX1051-24

These indicators have a key to prevent rotation when mounted.

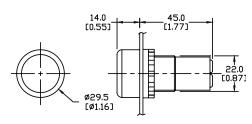
12 models available:

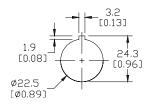
- Available in six colors
- 24V and 120V models
- Incandescent bulbs included
- · Accepts LED replacement lamps
- · Monoblock design for easy mounting
- · Side wire entry with back screw terminals for easy wiring and maintenance
- IP20 rated before installation
- IP65 rated after installation

Note: When using LED replacement lamps with these indicators, it may be necessary to remove the frosted diffuser for enhanced illumination.

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement Lamp
ECX1051-24	Red	\$5.50	22mm monoblock incandescent indicator light, 24VDC/VAC	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
ECX1051-120	Red	\$6.50	22mm monoblock incandescent indicator light, 120VDC/VAC	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
ECX1052-24	Green	\$5.50	22mm monoblock incandescent indicator light, 24VDC/VAC	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
ECX1052-120	Green	\$6.50	22mm monoblock incandescent indicator light, 120VDC/VAC	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
ECX1053-24	Yellow	\$5.50	22mm monoblock incandescent indicator light, 24VDC/VAC	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
ECX1053-120	Yellow	\$6.50	22mm monoblock incandescent indicator light, 120VDC/VAC	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
ECX1054-24	Blue	\$5.50	22mm monoblock incandescent indicator light, 24VDC/VAC	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
ECX1054-120	Blue	\$6.50	22mm monoblock incandescent indicator light, 120VDC/VAC	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
ECX1055-24	Clear	\$5.50	22mm monoblock incandescent indicator light, 24VDC/VAC	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
ECX1055-120	Clear	\$6.50	22mm monoblock incandescent indicator light, 120VDC/VAC	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
ECX1056-24	White	\$5.50	22mm monoblock incandescent indicator light, 24VDC/VAC	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
ECX1056-120	White	\$6.50	22mm monoblock incandescent indicator light, 120VDC/VAC	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

Dimensions: mm [inches]





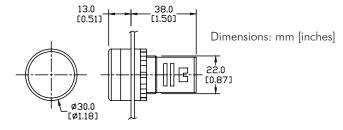
Plastic LED indicator lights



10 models available:

- · Available in five colors
- 24V and 120V models
- Non-replaceable LEDs
- · Side wire entry with back screw terminals for easy wiring and maintenance
- IP20 rated before installation
- IP65 rated after installation
- 12mA @ 120V, 65mA @ 24V

Part Number	Lamp Color	Price	Description
ECX2051-24L	Red	\$5.00	22mm non-metal monoblock LED indicator light, 24VDC/VAC
ECX2051-127L	Red	\$6.00	22mm non-metal monoblock LED indicator light, 120VDC/VAC
ECX2052-24L	Green	\$5.00	22mm non-metal monoblock LED indicator light, 24VDC/VAC
ECX2052-127L	Green	\$6.00	22mm non-metal monoblock LED indicator light, 120VDC/VAC
ECX2053-24L	Yellow	\$5.00	22mm non-metal monoblock LED indicator light, 24VDC/VAC
ECX2053-127L	Yellow	\$6.00	22mm non-metal monoblock LED indicator light, 120VDC/VAC
ECX2054-24L	Blue	\$8.50	22mm non-metal monoblock LED indicator light, 24VDC/VAC
ECX2054-127L	Blue	\$8.50	22mm non-metal monoblock LED indicator light, 120VDC/VAC
ECX2055-24L	Clear	\$8.50	22mm non-metal monoblock LED indicator light, 24VDC/VAC
ECX2055-127L	Clear	\$8.50	22mm non-metal monoblock LED indicator light, 120VDC/VAC



22mm Plastic Pilot Device Accessories

Replacement incandescent bulbs



ECX1902-5

	Replacement Incandescent Bulbs							
Part Number	Quantity	Price	Rating	Description				
ECX1900-5	Pkg of 5 bulbs	\$8.50		6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				
ECX1902-5	Pkg of 5 bulbs	\$8.50		24V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				
ECX1904-5	Pkg of 5 bulbs	\$17.50		120V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				

Note: Bulb removal tool available. Order part number HT8LAMPTOOL.

Replacement LED lamps



ECX1915-2

Hole plug



ECX1490

Protective covers for pushbuttons



ECX1703-5

	Replacement LED Lamps									
Part Number	Color	Quantity	Price	Rating	Description					
ECX1911-2	Red		\$15.50							
ECX1912-2	Green		\$19.50							
ECX1913-2	Yellow	Pkg of 2 LED	\$15.50		LED replacement lamp for miniature bayonet					
ECX1914-2	Blue		\$21.00		bases					
ECX1915-2	White		\$25.00		Works with 22mm switches and indicators, but illumination will not be as even when used with					
ECX1921-2	Red	lamps	\$15.50		the ECX 22mm indicators					
ECX1922-2	Green		\$19.50]	Note: Will not replace sealed Cutler-Hammer					
ECX1923-2	Yellow		\$15.50	120V@5mA 0.6 watts	monoblock LED indicators.					
ECX1924-2	Blue		\$21.00	Jo.o Hallo						
ECX1925-2	White		\$25.00							

Note: LED modules have very low current draw and should not be used with triac output devices like PLC triac output modules. It is recommended that dry contact outputs be used to switch 120 volt AC LED modules.

Hole Plug				
Part Number	Color	Price	Description	
ECX1490	Black	\$2.75	Plastic hole plug for 22.5 mm openings in panels and enclosures; supplied with O-ring and mounting screw. Two plugs per package.	

	Protective Covers for Pushbuttons						
Part Number	Color	Quantity	Price	Description			
ECX1700-5	Black		\$6.50				
ECX1701-5	Red		\$6.50	Silicone protective covers for use with 22mm standard-size flush			
ECX1702-5	Green	Pkg of 5	\$6.50	pushbuttons. - Will not work with Cutler-Hammer pushbuttons, 22mm plas illuminated or extended pushbuttons, or 22mm plastic pushbu			
ECX1703-5	Yellow		\$6.50				
ECX1704-5	Blue	protective caps	\$6.50	tons with 40mm actuator face.			
ECX1705-5	Clear	σαρο	\$6.50				
ECX1706-5	Clear		\$11.50	Clear silicone protective covers for use with 22mm illuminated and extended pushbuttons only. Will not work with Cutler-Hammer pushbuttons or 22mm mushroom pushbuttons.			

Knockout Punches



Ruko's knockout punch hole-cutting tool includes punch, die and draw bolt (without ball bearing). Use for sheet steel, stainless-steel sheets, non-ferrous and light metals, and plastics up to 0.16" (8 ga.) thick. Replacement bolts are offered in three of the most popular sizes. See the Tools section of the catalog for details.

109225

Note: Part number 109225 is recommended when punching holes for 22mm pilot devices.

Replacement keys



Replacement Keys					
Part Number	Quantity	Price	Description		
ECX1067-2	Pkg of 2	\$5.75	Replacement key for GCX series key-actuated selector switches, pack of 2 sets (2 keys each). NOTE: Will not work with Cutler-Hammer 22mm switches.		

Note: All key-actuated 22mm plastic selector switches are keyed alike.

22mm Plastic Pilot Device Accessories

Replacement 22mm support base



Replacement 22mm Support Base				
Part Number	Quantity	Price	Description	
ECX3029-2	Pkg of 1	\$1.75	22mm plastic support base Note: This item is supplied as a replacement part and is not required with any switch assembly. Will not work with Cutler-Hammer 22mm switches sold by AUTOMATION DIRECT	

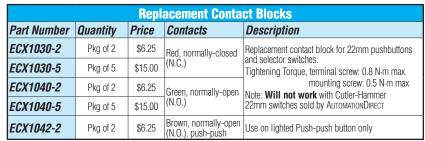
Dimensions: mm [inches]

ECX3029-2

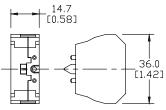
Replacement contact blocks



ECX1030-2



Note: See electrical specificatons on GCX Series 22mm Plastic Pilot Devices Specifications page at beginning of this section.



Dimensions: mm [inches]

EMERGENCY STOP legend plate



EMERGENCY STOP Legend Plate					
Part Number	Quantity	Price	Description		
ECX1651	pkg. of 1	\$2.75	Oversize yellow circular EMERGENCY STOP legend plate for 22mm E-stop type mushroom pushbuttons, 60mm outside diameter.		

Two-position short lever operator



GR1172PR-5

	Short Lever Replacement Operator				
Part Number	Lamp Color	Price	2-Position	Use with	
GR1172PR-5	Red	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk		
GR1172PV-5	Green	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk		
GR1172PG-5	Yellow	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX124, GCX125 GCX324, GCX325	
GR1172PB-5	Blue	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	, doxoz, doxozo	
GR1172PN-5	Clear	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk		

tPIL-20 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

22mm Plastic Pilot Device Accessories

Three-position short lever operator



GR1288PR-5

	Short Lever Replacement Operator					
Part Number	Lamp Color	Price	3-Position	Use with		
GR1288PR-5	Red	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk			
GR1288PV-5	Green	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk			
GR1288PG-5	Yellow	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128 GCX326, GVX328		
GR1288PB-5	Blue	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	uonozo, uvnozo		
GR1288PN-5	Clear	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk			

Mushroom switch replacement operator



PL1298P-5

	Mushroom Switch Replacement Operator						
Part Number	Lamp Color	Price	Description	Use with			
PL1171PR-5	Red	\$6.25	22mm, illuminated momentary Mushroom switch replacement operator, red, 5/pk	Part numbers starting with GCX1221, GCX3221 mushroom-style illuminated pushbuttons			
PL1298P-5	Red	\$6.25	22mm illuminated twist-to-release mushroom switch replacement operator, red, 5/pk	Part numbers starting with GCX1226, GCX3226 mushroom-style illuminated pushbuttons			

Flush pushbutton replacement operator



GR1168PR-5

Flush Pushbutton Replacement Operator				
Part Number	Lamp Color	Price	Description	Use with
GR1168PR-5	Red	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	
GR1168PV-5	Green	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	
GR1168PG-5	Yellow	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	Part numbers starting with GCX119. GCX120
GR1168PB-5	Blue	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX319, GCX320
GR1168PN-5	Clear	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	
GR1168PW-5	White	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	

Extended pushbutton replacement operator



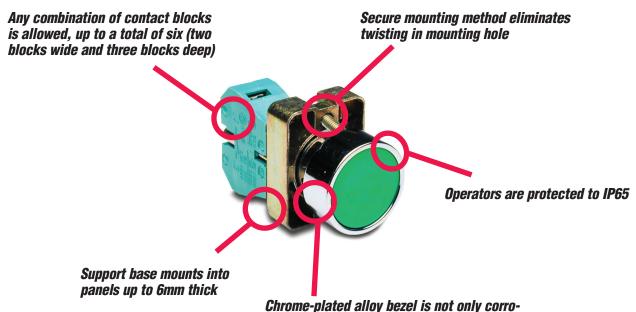
PL1308PR-5

	Extended Pushbutton Replacement Operator				
Part Number	Lamp Color	Price	Description	Use with	
PL1308PR-5	Red	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk		
PL1308PV-5	Green	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk		
PL1308PG-5	Yellow	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk	Part numbers starting with	
PL1308PB-5	Blue	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk	GCX121, GCX3Ž1	
PL1308PN-5	Clear	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk		
PL1308PW-5	White	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk		

Note: All dimensions are in inches [millimeters].

GCX Series 22mm Metal Pilot Devices

Features



Easy installation



To remove operator, press toward support base and twist counterclockwise.



To install switch, place support base against rear of panel (not shown here), insert the operator and twist clockwise until it clicks into place. Carefully tighten the securing screws. Do not over-tighten.





Six contact block maximum; two wide by three deep

Contacts rated A300 (Refer to E22 Series mounting/contact rating

section for details)

Pressure plate wiring terminals for easy, secure wiring, accepting up to 14 AWG wire

> Minimum current rating 15mA @ 24vdc

Clear contact block for illustration purposes. Clear contact blocks are not available for sale from AutomationDirect.

All indicators offer side wire entry with back screw terminals for easy wiring



tPIL-22 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX/ECX Series 22mm Metal Pilot Devices **Selection Guide**



Flush

- Momentary 30 or 40mm operators
- · Available in six colors: black, red, yellow, blue, white and green
- One contact block included
- ON/OFF models also available
- \$6.50 (GCX1100)

Ours:\$\text{\$\exittit{\$\text{\$\exittit{\$\ext{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittitt{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\exititt{\$\text{\$\texittit{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texittit{\$\te



Extended

- · Momentary 30mm operators
- · Available in six colors: black, red, yellow, blue, white and green
- One contact block included
- \$7.25 (GCX1110)

Allen-Bradley: \$59.77* (800F-MX01, 800F-ALM



Two way

- · Two way on/off control
- · With or without illuminated indicators
- · One NO and one NC contact block included



Illuminated

- · Available in clear, red, yellow, blue, white and green; 24 and 120-volt models
- · Momentary and push-push styles
- Flush or extended operators available
- Incandescent and LED models
- · One contact block included

\$12.00 (GCX1212-24)

illuminated models \$12.50 (GCX1131)

and key release models

One contact block included

Mushroom

Allen-Bradley: \$89.75* (800FM-MT44 + 800F-MX01 (800FM-LE3 + 800F-ALM, D3C)

• Available in momentary, twist-to-release,

· Also available in incandescent and LED



Audible annunciators and potentiometers

- · Audible annunciators with or without LED indicator
- 5 and 10 K Ω potentiometers



Selector switches

- · Two and three-position in spring return and maintained, non-illuminated and illuminated; incandescent and LED models
- Contact block included
- 🥏 Ours: \$9.75 (GCX1300)

Allen-Bradley: \$64.20* (800FM-SM22 + 800F-MX10)



Key switches

- Two and three-position
- · Contact blocks included
- \$18.00 (GCX1420)

Allen-Bradley: \$94.66* (800FM-KM21 + 800F-MX10) + 800F-ALM)



Joysticks

- · Two and four-position, maintained and momentary
- Contact blocks included
- 🦈 Ours: \$26.50 (ECX1510)
- Allen-Bradley: \$176.85* (800FM-JR2 + 800F-MX20 + 800F-ALM)



Pilot lights

- · Available in six colors: red, green, white, clear, yellow and blue
- 24 and 120-volt models with LED
- · Frosted diffuser for even lighting
- Incandescent or LED indicators

\$5.50 (ECX1052-24)

Allen-Bradley: \$70.55* (800FM-P3 + 800F-ALM + 800F-D3C)

Accessories



 Protective Bulbs actuator six-hole enclosures and LEDs caps

^{*}All prices are U.S. published prices. AutomationDirect's prices are from April 2014 Price List. Prices and specifications may vary by dealer and configuration. Allen-Bradley industrial control component prices from www.rockwellautomation.com/en/e-tools 2/28/2014.

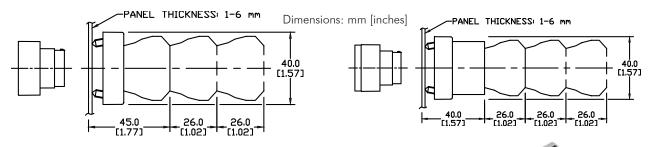
GCX Series 22mm Metal Pilot Devices Specifications

Assembly information

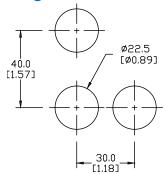
These pushbuttons and indicator lights are supplied with the appropriate contact blocks, unless otherwise indicated. Use these drawings as a guide to make sure there is adequate clearance behind the panel.

Pushbuttons and selector switches

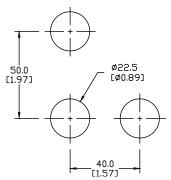
Illuminated pushbuttons and selector switches/pilot lights



Mounting



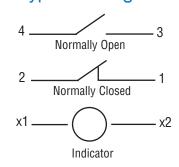
This layout is suitable if all switches are 230V or less and the same polarity.



This layout is suitable if all switches are 400V or less and different polarity.

Typical Wiring

NOTE: Contact blocks can be arranged up to three deep by two wide.



Specifications

These specifications apply to all GCX and ECX 22 mm metal pushbuttons and switches.

Physical Specifications				
Standards Reference	CEI EN 60947-5-1, CSA C22-2 n.14			
Approvals	CSA, IMQ (where specified), UL File E189258			
Enclosure Material	Zn + Al + Mg alloy, chromium plated			
Contacts Material	Silver			
Protection Degree	IP 40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP 65 for all others. (See Appendix of this catalog for explanation of IP ratings according to IEC 144 CEI 70-1.)			
Temperature Ratings	Storage: -40° -to 80°C (-40° to 176° F) Operating: -25° to +70°C (-13° to 158° F)			
Working Positions	All working positions are allowed			
Mechanical Life	Pushbuttons, selector switches: Joy stick switches: 1,000,000 operations Mushroom pushbuttons: 300,000 operations			

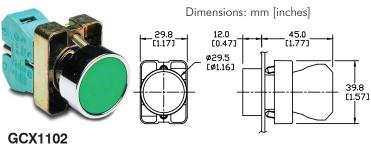
Electri	Electrical Specifications			
Rated Thermal Current (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)			
Rated Insulation Voltage	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14			
Dielectric Strength	3kV (1 second)			
Insulation Resistance	2MΩ min. (500VDC)			
Initial Contact Resistance	≤25mΩ			
Short-Circuit Protection*	Cartridge fuses gl 10A - 500V 10,3x38l1 100kA			
Terminal Markings	According to CENELEC EN 50013			
Connections	Single screw with non-loosening plate clamp,14AWG max.			
Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow action, positive opening			
Operation Frequency	3600 operations per hour max.			
Utilization Category	AC15 (Control of AC electromagnetic loads) 24 volts AC at 10 amps 130 volts AC at 6.5 amps DC13 (Control of DC electromagnetic loads) 24 volts DC at 1.5 amps 110 volts DC at 0.5 amps			

^{*}Note: Recommended, not supplied

tPIL-24 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

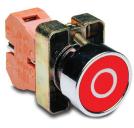
GCX Series 22mm Metal Pushbuttons

Momentary flush pushbuttons with protective metal ring (30mm dia. actuator)



	Part Number	Color	Price	Description
	GCX1100	Black	\$6.50	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole
	GCX1101	Red	\$6.50	One N.C. contact block, 30mm dia. actuator, mounts in 22mm hole
	GCX1102	CX1102 Green		
	GCX1103	Yellow	\$6.50	One N.O. contact block, 30mm dia.
ı	GCX1104	Blue	\$6.50	actuator, mounts in 22mm hole
	GCX1105	White	\$6.50	

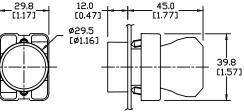
Momentary Flush ON/OFF pushbuttons with protective metal ring (30mm dia. actuator)



Dimensions: mm [inches]







GCX1107

Momentary Pushbuttons with protective metal ring (40mm dia. actuator)



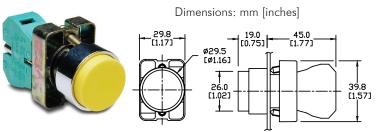
Dimensions: mm [inches] _29.8 [1.17] ø40.0 [ø1.57]

Part Number	Color	Price	Description	
GCX1120	Black	\$7.75	One N.O. contact block, 40mm dia. actuator, mounts in 22mm hole	
GCX1121	Red	\$7.75	One N.C. contact block, 40mm dia. actuator, mounts in 22mm hole	
GCX1122	Green	\$7.75		
GCX1123	Yellow	\$7.75	One N.O. contact block, 40mm	
GCX1124	Blue	\$7.75	dia. actuator, mounts in 22mm hole	
GCX1125	White	\$7.75		

Note: Protective silicone covers are not available for this pushbutton.

GCX Series 22mm Metal Pushbuttons

Momentary extended pushbuttons



Part Number	Color	Price	Description		
GCX1110	Black	\$7.25	One N.O. contact block, extended 30mm dia. actuator, mounts in 22mm hole		
GCX1111	Red	\$7.25	One N.C. contact block, extended 30mm dia. actuator, mounts in 22mm hole		
GCX1112	Green	\$7.25			
GCX1113	Yellow	\$7.25	One N.O. contact block, extended 30mm dia. actuator, mounts in		
GCX1114	Blue	\$7.25	22mm hole		
GCX1115	White	\$7.25			

GCX1113

Double-headed momentary pushbuttons

Part Number	Part Number Price Double-headed Momentary Pushbuttons Description			
GCX1150 \$12.50 Double-headed for on/off control, One N.O. and one N.C. contact block, fits in 22mm dia. hole, without symbols		Double-headed for on/off control, One N.O. and one N.C. contact block, fits in 22mm dia. hole, without symbols		
GCX1151-24 \$19.00 \$19.00 \$24VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole		24VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole		
GCX1151-120 \$20.00 120VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole		120VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole		
GCX1152	\$13.50	Double-headed for on/off control. One N.O. and one N.C. contact block, fits in 22mm dia. hole. With ON(I) and OFF (0) symbols		
GCX1153-24* \$20.00 24VDC/VAC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block		24VDC/VAC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block		
GCX1153-120*	\$21.00	120VDC/AC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block		

Dimensions: mm [inches]

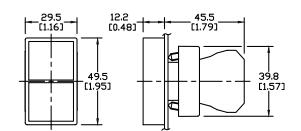
^{*} Note: Lamp data in 22 mm Metal Pilot Accessories in this section.



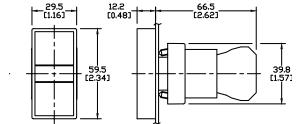
GCX1152 (with on/off symbols)



GCX1151-24



GCX1150, GCX1152 models



GCX1151-24, GCX1153-24, GCX1151-120, GCX1153-120 models

For accessories, see 22mm Metal Pilot Device Accessories in this section.

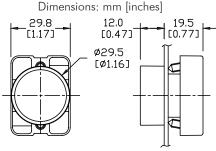
Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX Series 22mm Metal Pushbuttons without Contact Block

Momentary flush pushbutton operator (without contact block) (30mm dia. actuator)



Part Number	Color	Price	Description
GCX1100-SC	Black	\$4.75	22mm metal pushbutton operator, flush, includes 30mm dia. operator and support base ONLY. Contact blocks sold separately, mounts in 22mm hole.
GCX1101-SC	Red	\$4.75	22mm metal pushbutton operator, flush, includes 30mm dia. operator and support base ONLY. Contact blocks sold separately, mounts in 22mm hole.
GCX1102-SC	Green	\$4.75	22mm metal pushbutton operator, flush, includes 30mm dia. operator and support base ONLY. Contact blocks sold separately, mounts in 22mm hole.

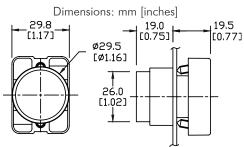


NOTE: Contact block sold separately

Momentary extended pushbutton operator (without contact block) (30mm dia. actuator)



Part Number	Color	Price	Description
GCX1110-SC	Black	\$4.75	22mm metal pushbutton operator, extended, includes 30mm dia. operator and support base ONLY. Contact block sold separately, mounts in 22mm hole
GCX1111-SC	Red	\$4.75	22mm metal pushbutton operator, extended, includes 30mm dia. operator and support base ONLY. Contact block sold separately, mounts in 22mm hole
GCX1112-SC	Green	\$4.75	22mm metal pushbutton operator, extended, includes 30mm dia. operator and support base ONLY. Contact block sold separately, mounts in 22mm hole



NOTE: Contact block sold separately

Contact blocks are available for these products. See accesssories.



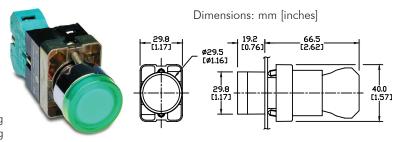
GCX Series 22mm Metal Illuminated Pushbuttons

Momentary pushbuttons with protective plastic ring

24 models available:

- Protective plastic ring for flush mount pushbutton functionality
- Includes incandescent bulb or LED lamp
- 24V and 120V models
- Available in six colors

All pushbuttons include operator, mounting adapter, chrome plated alloy bezel, indicating bulb (if applicable), and contact block. They are shipped unassembled. Legend plate is not iincluded and must be ordered separately. All switches in this series use replacement contact block ECX1030 (Red, N.C.) or ECX1040 (Green, N.O.), sold separately in packages of two or five.



GCX1202-24

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX1201-24	Red	\$12.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.C. contact block	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA
GCX1201-120	Red	\$14.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.C. contact block	ECX1904-5	ECX1921-2
GCX1202-24	Green	-	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	5/pk, 20mA ECX1902-5	2/pk, 5mA ECX1912-2
			, , ,	5/pk, 80mA ECX1904-5	2/pk, 26mA ECX1922-2
GCX1202-120	Green	\$14.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	5/pk, 20mA	2/pk, 5mA
GCX1203-24	Yellow	\$12.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA
GCX1203-120	Yellow	\$14.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5	ECX1923-2
		-		5/pk, 20mA ECX1902-5	2/pk, 5mA ECX1914-2
GCX1204-24	Blue	\$12.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	5/pk, 80mA	2/pk, 26mA
GCX1204-120	Blue	\$14.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA
GCX1205-24	Clear	\$12.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1205-120	Clear	\$14.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5	ECX1925-2
			1 , , .	5/pk, 20mA ECX1902-5	2/pk, 5mA ECX1915-2
GCX1206-24	White	\$12.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block	5/pk, 80mA	2/pk, 26mA
GCX1206-120	White	\$14.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
LED					
GCX1201-24L	Red	\$19.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.C. contact block	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA
GCX1201-120L	Red	\$24.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.C. contact block	ECX1904-5	ECX1921-2
			, , , ,	5/pk, 20mA ECX1902-5	2/pk, 5mA ECX1912-2
GCX1202-24L	Green	\$19.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	5/pk, 80mA	2/pk, 26mA
GCX1202-120L	Green	\$24.00	22mm metal LED illuminated pushbutton,120 VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1922-2 2/pk, 5mA
GCX1203-24L	Yellow	\$19.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	ECX1902-5	ECX1913-2
GCX1203-120L	Yellow	· ·	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	5/pk, 80mA ECX1904-5	2/pk, 26mA ECX1923-2
				5/pk, 20mA ECX1902-5	2/pk, 5mA ECX1914-2
GCX1204-24L	Blue	\$19.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	5/pk, 80mA	2/pk, 26mA
GCX1204-120L	Blue	\$24.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA
GCX1205-24L	Clear	\$23.00	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1205-120L	Clear	\$25.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block	ECX1904-5	ECX1925-2
GCX1206-24L	White	· ·	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block	5/pk, 20mA ECX1902-5	2/pk, 5mA ECX1915-2
			1 ' '	5/pk, 80mA ECX1904-5	2/pk, 26mA ECX1925-2
GCX1206-120L	White	\$25.00	22mm metal LED illuminated pushbutton,120 VDC/VAC. One N.O. contact block	5/pk, 20mA	2/pk, 5mA

GCX Series 22mm Metal Illuminated Pushbuttons

Momentary pushbuttons with extended actuator

25 models available:

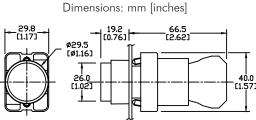
- Protective plastic ring for flush mount pushbutton functionality
- Includes incandescent bulb or LED lamp
- 24V and 120V models
- Available in six colors

All pushbuttons include operator, mounting adapter, chrome plated alloy bezel, indicating

GCX1214-24

bulb (if applicable), and contact block. They are shipped unassembled. Legend plate is not included and must be ordered separately. All switches in this series use replacement contact block ECX1030 (Red, N.C.) or ECX1040 (Green, N.O.), sold separately in packages of two or five.





Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX1211-24	UNE N.C. CONTACT DIOCK				ECX1911-2 2/pk, 26mA
GCX1211-120	Red	\$13.50	22mm metal extended incandescent illuminated pushbutton, 120VDC/VAC . One N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk, 5mA
GCX1212-24	Green	\$12.00	22mm metal extended incandescent illuminated pushbutton, 24VDC/VAC . One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk, 26mA
GCX1212-120	Green	\$13.50	22mm metal extended incandescent illuminated pushbutton, 120VDC/VAC . One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk, 5mA
GCX1213-24	Yellow	\$12.00	22mm metal extended incandescent illuminated pushbutton, 24VDC/VAC . One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk, 26mA
GCX1213-120	Yellow	\$13.50	22mm metal extended incandescent illuminated pushbutton, 120VDC/VAC . One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk, 5mA
GCX1214-24	Blue	\$12.00	22mm metal extended incandescent illuminated pushbutton, 24VDC/VAC . One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk, 26mA
GCX1214-120	Blue	\$13.50	22mm metal extended incandescent illuminated pushbutton, 120VDC/VAC . One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk, 5mA
GCX1215-24	Clear	\$12.00	22mm metal extended incandescent illuminated pushbutton, 24VDC/VAC . One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk, 26mA
GCX1215-120	Clear	\$13.50	22mm metal extended incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk, 5mA
GCX1216-24	White	\$12.00	22mm metal extended incandescent illuminated pushbutton, 24VDC/VAC . One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk, 26mA
GCX1216-120	White	\$13.50	22mm metal extended incandescent illuminated pushbutton, 120VDC/VAC . One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk, 5mA
LED		I	- No Contact Stock	ο, ρ.κ. <u>Σ</u> οπιι τ	2/ 5/1, 5/1/1
GCX1211-24L	Red	\$16.50	22mm metal extended LED illuminated pushbutton, 24VDC/VAC. One N.C. contact block	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk, 26mA
GCX1211-120L	Red	\$17.50	22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.C. contact block	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk, 5mA
GCX1211-120LA	Red	\$17.50	22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1921-2 2/pk, 5mA
GCX1212-24L	Green	\$18.50	22mm metal extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1912-2 2/pk, 26mA
GCX1212-120L	Green	\$12.50	22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1922-2 2/pk, 5mA
GCX1213-24L	Yellow	\$16.50	22mm metal extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1913-2 2/pk, 26mA
GCX1213-120L	Yellow	\$17.50	22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1902-5	ECX1923-2
GCX1214-24L	Blue		22mm metal extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	5/pk 80mA ECX1904-5 5/pk 20mA	2/pk, 5mA ECX1914-2 2/pk, 26mA
GCX1214-120L	K1214-120L Blue \$20.00 22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact bl		22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1924-2 2/pk, 5mA
GCX1215-24L	X1215-24L Clear \$21.00 22mm metal extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact bl		ECX1904-5 5/pk 20mA	ECX1915-2 2/pk, 26mA	
GCX1215-120L	CX1215-120L Clear \$22.00 22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. co		22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1902-5 5/pk 80mA	ECX1925-2 2/pk, 5mA
GCX1216-24L	White	\$21.00	22mm metal extended LED illuminated pushbutton, 24VDC/VAC. One N.O. contact block	ECX1904-5 5/pk 20mA	ECX1915-2 2/pk, 26mA
GCX1216-120L	White	\$22.00	22mm metal extended LED illuminated pushbutton, 120VDC/VAC. One N.O. contact block	ECX1925-2 2/pk 5mA	ECX1925-2 2/pk, 5mA

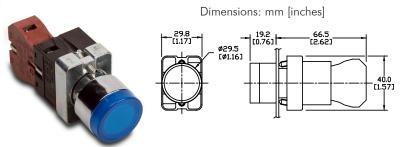
GCX Series 22mm Metal Illuminated Pushbuttons

Push-push style pushbuttons with protective plastic ring

24 models available:

- Protective plastic ring for flush mount pushbutton functionality
- Includes incandescent bulb or LED lamp
- 24V and 120V models
- · Available in six colors
- These switches are supplied with a special N.O. contact block designed for use with this actuator, but they also work with standard N.C. contacts

All switches in this series use replacement contact block ECX1042-2 (Brown, N.O.) or ECX1030-5 or ECX1030-2 (Red, N.C.), sold separately.



GCX1194-24

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX1191-24	Red	\$14.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA
GCX1191-120	Red	\$15.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1921-2 2/pk, 5mA
GCX1192-24	Green	\$14.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1912-2 2/pk, 26mA
GCX1192-120	Green	\$15.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1922-2 2/pk, 5mA
GCX1193-24	Yellow	\$14.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA
GCX1193-120	Yellow	\$15.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1923-2 2/pk, 5mA
GCX1194-24	Blue	\$14.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1914-2 2/pk, 26mA
GCX1194-120	Blue	\$15.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA
GCX1195-24	Clear	\$14.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1195-120	Clear	\$15.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
GCX1196-24	White	\$14.50	22mm metal incandescent illuminated pushbutton, 24VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1196-120	White	\$15.00	22mm metal incandescent illuminated pushbutton, 120VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring.	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
LED					
GCX1191-24L	Red	\$23.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA
GCX1191-120L	Red	\$25.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1921-2 2/pk, 5mA
GCX1192-24L	Green	\$23.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1912-2 2/pk, 26mA
GCX1192-120L	Green	\$25.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1922-2 2/pk, 5mA
GCX1193-24L	Yellow	\$23.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA
GCX1193-120L	Yellow	\$25.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1923-2 2/pk, 5mA
GCX1194-24L	Blue	\$23.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1914-2 2/pk, 26mA
GCX1194-120L	Blue	\$25.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA
GCX1195-24L	Clear	\$23.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1195-120L	Clear	\$25.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
GCX1196-24L	White	\$23.50	22mm metal LED illuminated pushbutton, 24 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1196-120L	White	\$25.00	22mm metal LED illuminated pushbutton, 120 VDC/VAC. One N.O. contact block. Flush Push ON - Push OFF operator with colored plastic ring	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA

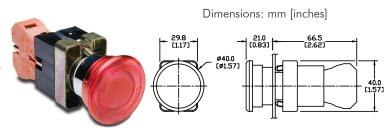
For accessories, see 22mm Metal Pilot Device Accessories in this section.

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GCX Series 22mm Metal Illuminated Pushbuttons

Mushroom-style illuminated pushbuttons

All pushbuttons include operator, mounting adapter, chrome plated alloy bezel, indicating bulb (if applicable), and contact block. They are shipped unassembled. Legend plate is not included and must be ordered separately. All switches in this series use replacement contact block ECX1030 (Red, N.C.) or ECX1040 (Green, N.O.), sold separately in packages of two or five.

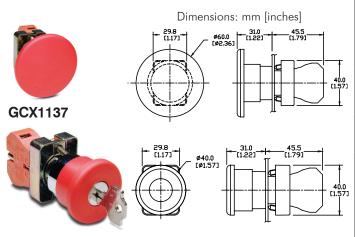


GCX1221-24

Part Number	Lamp Color	Price	Mushroom-style Illuminated Pushbuttons Description	Replacement Bulbs
Incandescent				
GCX1221-24	Red	\$14.50	22mm metal incandescent momentary pushbutton with incandescent illuminated 40mm mushroom actuator, 24VDC/VAC , one N.C . contact block	ECX1902-5 5/pk 80mA
GCX1221-120	Red	\$16.00	22mm metal incandescent momentary pushbutton with incandescent illuminated 40mm mushroom actuator, 120VDC/VAC , one N.C. contact block	ECX1904-5 5/pk 20mA
GCX1226-24	Red	\$16.50	22mm metal incandescent pushbutton with incandescent illuminated 40mm mushroom twist-to-release actuator, 24VDC/VAC , one N.C . contact block	ECX1902-5 5/pk 80mA
GCX1226-120	Red	\$18.00	22mm metal incandescent pushbutton with incandescent illuminated 40mm mushroom twist-to-release actuator, 120VDC/VAC, one N.C. contact block	ECX1904-5 5/pk 20mA
LED				
GCX1221-24L	Red	\$18.50	22 mm metal momentary pushbutton with LED illuminated 40 mm mushroom actuator, 24VDC/VAC , one N.C. contact block	ECX1911-2 2/pk 26mA
GCX1221-120L	Red	\$20.00	22 mm metal momentary pushbutton with LED illuminated 40 mm mushroom actuator, 120VDC/VAC , one N.C. contact block	ECX1921-2 2/pk 5mA
GCX1226-24L	Red	\$20.50	22 mm metal pushbutton with LED illuminated 40 mm mushroom twist-to-release actuator, 24VDC/VAC , one N.C. contact block	ECX1911-2 2/pk 26mA
GCX1226-120L	Red	\$22.50	22 mm metal pushbutton with LED illuminated 40 mm mushroom twist-to-release actuator, 120VDC/VAC , one N.C. contact block	ECX1921-2 2/pk 5mA

Non-Illuminated Mushroom pushbuttons

Has large 60mm dia. actuator and mounts in standard 22mm hole



GCX1141 (key operated)



Note: Keyed switches come with two keys. All metal 22mm keyed switches are keyed alike. Replacement keys are available. Order part no. ECX1067-2 (pkg. of 2).

Part Number	Color	Price	Description
GCX1131	Red	\$12.50	Twist-to-release actuator with one N.C. contact block, fits in 22mm dia. hole.Has large 40mm dia. mushroom-style actuator.
GCX1134	Black	\$10.50	Momentary action with one N.O. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator.
GCX1135	Red	\$10.50	Momentary action with one N.C. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator. "Emergency" legend plate available (see Accessories).
GCX1136	Red	\$15.50	Twist-to-release actuator with one N.C. contact block, fits in 22mm dia. hole. 60mm mushroom-style actuator.
GCX1137	Red	\$12.50	Momentary action with one N.C. contact block, fits in 22mm dia. hole, has large 60mm dia. mushroom-style. "Emergency" legend plate available (see Accessories).
GCX1139	Yellow	\$10.50	Momentary action with one N.O. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator.
GCX1141	Red	\$17.50	Key operated release with one N.C. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator. "Emergency" legend plate available (see Accessories).

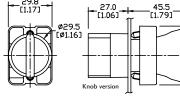
GCX Series 22mm Metal Selector Switches

Two-position selector switches



Part Number Price Description - 2-Position Switches 22mm metal selector switch, two-position **maintained**, black knob. **One N.O.** contact block GCX1300 \$9.75 22mm metal selector switch, two-position **spring-return from right**, black knob. GCX1310 \$11.00 One N.O. contact block 22mm metal selector switch, two-position maintained, black lever. GCX1350 \$11.00 One N.O. contact block 22mm metal selector switch, two-position **spring-return from right**, black lever. **One N.O.** contact block GCX1360 \$11.50

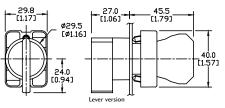
GCX1300 Knob version



Dimensions: mm [inches]

Contact	Closure	Sequenc	e - 2-Posit	ion Switch				
Contact Blocks		rangement rom front)	Switch Position (viewed from front)					
DIUCKS	Left	Right	Left (Note 1)	Right (Note 2)				
1 x NC	NC		Х					
TXNC		NC	Х					
1 x NO	NO			Х				
I X NU		NO		X				
2 x NC	NC	NC	XX					
2 x NO	NO	NO		XX				
Note 1. Left quitab position desetivates all contacts								

GCX1350 Lever version

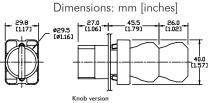


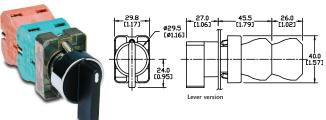
Note 1: Left switch position deactivates all contacts. Note 2: Right switch position activates all contacts.

Three-position selector switches



GCX1320-22 **Knob version**





Part Number	Price	Description - 3-Position Switches		
GCX1320-22	\$19.00	22mm metal selector switch, three-position maintained , black knob, Two N.O. and two N.C. contact blocks		
GCX1330-22	\$19.50	22mm metal selector switch, three-position spring-return to center , black knob, Two N.O. and two N.C. contact blocks		
GCX1370-22	\$19.50	22mm metal selector switch, three-position maintained . black lever, Two N.O. and two N.C. contact blocks		
GCX1380-22	\$20.00	22mm metal selector switch, three-position spring-return to center , black lever, Two N.O. and two N.C. contact blocks		

Contact Closure Sequence - 3-Position Switch								
Contact Blocks	Contact Arrangement (viewed from front)		Switch Position (viewed from front)					
	Left	Right	Left (Note 1)	Center (Note 2)	Right (Note 3)			
1 x NC	NC			х —	х			
		NC	х —	х				
1 x NO	NO		Χ					
		NO			X			
2 x NC	NC	NC	χ	XX	— х			
2 x NO	NO	NO	Χ		Х			

Note 1: Left switch position activates left side contacts (viewed from front).

Note 2: Center switch position deactivates all contacts.

Note 2: Right switch position activates right side contacts (viewed from front).

GCX1370-22 Lever version



For accessories, see 22mm Metal Pilot Device Accessories in this section.

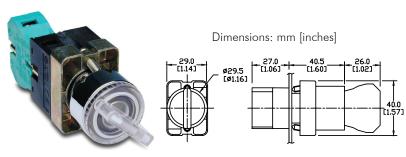
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GCX Series 22mm Metal Illuminated Selector Switches

Illuminated two-position selector switches

20 models available:

- · Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available



GCX1245-24

Note: For contact closure sequence, refer to preceding page.

Spring Return

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp				
Incandescent									
GCX1241-24	Red	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA				
GCX1241-120	Red	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA				
GCX1242-24	Green	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA				
GCX1242-120	Green	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA				
GCX1243-24	Yellow	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA				
GCX1243-120	Yellow	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA				
GCX1244-24	Blue	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA				
GCX1244-120	Blue	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA				
GCX1245-24	Clear	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA				
GCX1245-120	Clear	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA				
LED		'							
GCX1241-24L	Red	\$18.50	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA				
GCX1241-120L	Red	\$18.50	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA				
GCX1242-24L	Green	\$20.50	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA				
GCX1242-120L	Green	\$20.50	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA				
GCX1243-24L	Yellow	\$18.50	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA				
GCX1243-120L	Yellow	\$18.50	22mm meta LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA				
GCX1244-24L	Blue	\$20.50	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA				
GCX1244-120L	Blue	\$23.00	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA				
GCX1245-24L	Clear	\$23.00	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA				
GCX1245-120L	Clear	\$23.00	22mm metal LED illuminated 2-position selector switch. Spring-return from right. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA				

GCX Series 22mm Metal Illuminated Selector Switches

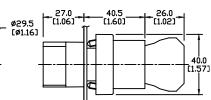
Illuminated two-position maintained selector switches

20 models available:

- Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available







Note: For contact closure sequence, refer to preceding pages.

Dimensions: mm [inches]

GCX1251-24

Maintained

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX1251-24	Red	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX1251-120	Red	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX1252-24	Green	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX1252-120	Green	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX1253-24	Yellow	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX1253-120	Yellow	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX1254-24	Blue	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX1254-120	Blue	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX1255-24	Clear	\$14.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX1255-120	Clear	\$15.50	22mm metal incandescent illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
LED					
GCX1251-24L	Red	\$18.50	22mm metal LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX1251-120L	Red	\$18.50	22mm metal LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX1252-24L	Green	\$20.50	22mm metal LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX1252-120L	Green	\$20.50	22mm metal LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX1253-24L	Yellow	\$18.50	22mm metal LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX1253-120L	Yellow	\$18.50	22mm metal LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX1254-24L	Blue	\$20.50	22mm metal LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX1254-120L	Blue	\$23.00	22mm metal LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX1255-24L	Clear	\$23.00	22mm metal LED illuminated 2-position selector switch. Maintained. 24VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX1255-120L	Clear	\$24.00	22mm metal LED illuminated 2-position selector switch. Maintained. 120VDC/VAC. One N.O. contact block. Illuminated colored knob.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

For accessories, see 22mm Metal Pilot Device Accessories in this section.

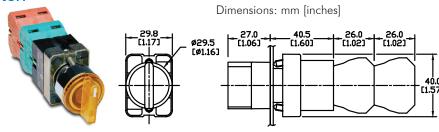
tPIL-34 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

GCX Series 22mm Metal Illuminated Selector Switches

Illuminated three-position maintained selector switch

20 models available:

- Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available



GCX1263-24

Note: For contact closure sequence, refer to preceding pages.

Maintained

Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
Incandescent					
GCX1261-24	Red	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX1261-120	Red	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX1262-24	Green	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX1262-120	Green	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX1263-24	Yellow	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX1263-120	Yellow	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX1264-24	Blue	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX1264-120	Blue	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX1265-24	Clear	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX1265-120	Clear	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
LED					
GCX1261-24L	Red	\$28.00	22mm metal LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX1261-120L	Red	\$30.00	22mm metal LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX1262-24L	Green	\$30.00	22mm metal LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX1262-120L	Green	\$30.00	22mm metal LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX1263-24L	Yellow	\$28.00	22mm metal LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX1263-120L	Yellow	\$30.00	22mm metal LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX1264-24L	Blue	\$30.00	22mm metal LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX1264-120L	Blue	\$30.00	22mm metal LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX1265-24L	Clear	\$30.00	22mm metal LED illuminated 3-position selector switch. Maintained. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX1265-120L	Clear	\$31.00	22mm metal LED illuminated 3-position selector switch. Maintained. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

For accessories, see 22mm Metal Pilot Device Accessories in this section.

GCX Series 22mm Metal Illuminated Selector Switches

Illuminated three-position spring return selector switches

20 models available:

- · Available in five colors
- 24V and 120V models
- Available in spring-return and maintained styles
- Replacement knobs are available

Ø29.5 (1.06) (1.60) (1.02) (1.02) (1.02) (1.50)

Dimensions: mm [inches]

GCX1283-24

For contact closure sequence, refer to preceding pages.

Spring Return

Part Number	Lamp Color	Price	Description	Standard Incandescent Bulb	Standard LED Lamp
Incandescent					
GCX1281-24	Red	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX1281-120	Red	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX1282-24	Green	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX1282-120	Green	\$24.50	22mm metal iincandescent Iluminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX1283-24	Yellow	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX1283-120	Yellow	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX1284-24	Blue	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX1284-120	Blue	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX1285-24	Clear	\$24.00	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX1285-120	Clear	\$24.50	22mm metal incandescent illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA
LED					
GCX1281-24L	Red	\$28.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1911-2 2/pk 26mA
GCX1281-120L	Red	\$29.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1921-2 2/pk 5mA
GCX1282-24L	Green	\$30.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1912-2 2/pk 26mA
GCX1282-120L	Green	\$30.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1922-2 2/pk 5mA
GCX1283-24L	Yellow	\$28.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1913-2 2/pk 26mA
GCX1283-120L	Yellow	\$25.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N. O. and Two N. C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1923-2 2/pk 5mA
GCX1284-24L	Blue	\$30.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1914-2 2/pk 26mA
GCX1284-120L	Blue	\$30.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1924-2 2/pk 5mA
GCX1285-24L	Clear	\$31.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 24VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1902-5 5/pk 80mA	ECX1915-2 2/pk 26mA
GCX1285-120L	Clear	\$30.00	22mm metal LED illuminated 3-position selector switch. Spring-return to Center. 120VDC/VAC. Two N.O. and Two N.C. contact blocks.	ECX1904-5 5/pk 20mA	ECX1925-2 2/pk 5mA

For accessories, see 22mm Metal Pilot Device Accessories in this section.

tPIL-36 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

ECX Series 22mm Metal Joystick Selector Switches

Joystick selector switches

Four models available



Part Number	Price	Description
ECX1510	\$26.50	22mm metal joystick-style selector switch, two-position momentary, two N.O. contact blocks
ECX1512	\$26.50	22mm metal joystick-style selector switch, two-position maintained, two N.O. contact blocks
ECX1520	\$34.50	22mm metal joystick-style selector switch, four-position momentary, four N.O. contact blocks
ECX1524	\$34.50	22mm metal joystick-style selector switch, four-position maintained, four N.O. contact blocks

Note: Four-position switches use two special contact blocks which are not replaceable.

Note: When using switches having two-deep contact blocks (4-position joysticks) with the 22mm plastic enclosures, use enclosures that are 74mm deep; 51mm-deep enclosures are too shallow.

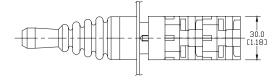
ECX1510 (Two-position momentary) ECX1512 (Two-position maintained)

- Moving the joystick UP will close contact on one side.
- Moving the joystick DOWN will close contact on other side.



Mounting Dimensions: mm [inches] Two-position switch Four-position switch panel hole layout panel hole layout

Dimensions



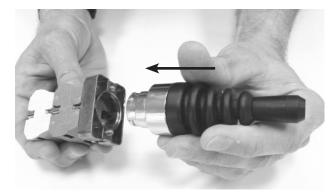
ECX1520 (Four-position momentary) ECX1524 (Four-position maintained)

- Moving the joystick UP will close Green contact on one side and moving it DOWN will close Gray contact located behind it.
- Moving the joystick RIGHT will close Green contact on other side and moving it LEFT will close Gray contact located behind it.

ø29.5 [ø1.16]

Important installation note

It is very important that the joystick be assembled correctly to ensure proper operation.



Insert operator into support base (panel is not shown).

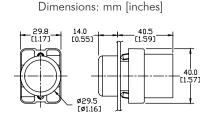
For accessories, see 22mm Metal Pilot Device Accessories in this section.



Twist clockwise until it clicks into place. Carefully tighten the securing screws. Do not over-tighten. (4.5 lb·in) If the operator is not "clicked" into position before the screws are tightened, the switch will not work properly.

GCX Series 22mm Metal Pilot Lights and Key Switches





LED Pilot Light

12 models available

- Available in six colors
 - 24V and 120V models
 - · LED lamps are included
 - Accepts incandescent replacement bulbs

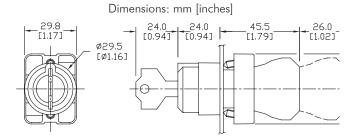
Part Number	Lamp Color	Price	Description	Replacement Incandescent Bulb	Replacement LED Lamp
LED					
GCX1231-24L	Red	\$14.50	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5 5/pk, 80mA	ECX1911-2 2/pk, 26mA
GCX1231-120L	Red	\$15.50	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5 5/pk, 20mA	ECX1921-2 2/pk, 5mA
GCX1232-24L	Green	\$14.50	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5 5/pk, 80mA	ECX1912-2 2/pk, 26mA
GCX1232-120L	Green	\$15.50	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5 5/pk, 20mA	ECX1922-2 2/pk, 5mA
GCX1233-24L	Yellow	\$14.50	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5 5/pk, 80mA	ECX1913-2 2/pk, 26mA
GCX1233-120L	Yellow	\$15.50	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5 5/pk, 20mA	ECX1923-2 2/pk, 5mA
GCX1234-24L	Blue	\$14.50	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5 5/pk, 80mA	ECX1914-2 2/pk, 26mA
GCX1234-120L	Blue	\$15.50	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5 5/pk, 20mA	ECX1924-2 2/pk, 5mA
GCX1235-24L	Clear	\$16.50	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1235-120L	Clear	\$17.50	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA
GCX1236-24L	White	\$16.50	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5 5/pk, 80mA	ECX1915-2 2/pk, 26mA
GCX1236-120L	White	\$17.50	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5 5/pk, 20mA	ECX1925-2 2/pk, 5mA

Key-operated selector switches



GCX1420 (2-position maintained)

Part Number	Price	Description
GCX1420	\$18.00	22mm metal selector switch, key-operated, two-position maintained , key can be removed in all positions. One N.O. contact block. Replacement keys available
GCX1430	\$18.00	22mm metal selector switch, key-operated, two-position spring-return from right. One N.O. contact block. Replacement keys available
GCX1470-22	\$26.50	22mm metal selector switch, key-operated, three-position maintained , key can be removed in all positions. Two N.O. and two N.C. contact blocks. Replacement keys available





Note: Keyed switches come with two keys. All metal 22mm keyed switches are keyed the same. Replacement keys are available. Order part no. ECX1067-2 (pkg. of 2). Keys for metal 22mm keyed switches are not compatible with Cutler-Hammer key switches.



Note: When using switches having two-deep contact blocks (such as, Model GCX1470-22) with the 22mm plastic enclosures, be sure to use enclosures that are 74mm deep. 51mm-deep enclosures are too shallow and the switch body will not fit.

Note: For contact closure sequence, refer to beginning of selector switches in this section.

For accessories, see 22mm Metal Pilot Device Accessories in this section.

ECX Series 22mm Metal Pilot Devices

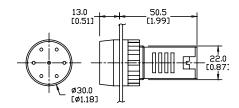
Audible annunciator



- 80dB @ 10cm
- 25mA @ 24V
- Intermittent sound when energized
- IP20 before installation
- IP65 after installation

Part Number	Color	Price	Description	
ECX2070-24	Black	\$6.50	22mm, 25mA audible (80dB at 10cm) buzzer annunciator. 24VAC/DC	
ECX2070-127	Black	\$6.50	22mm, 25mA audible (80dB at 10cm) buzzer annunciator. 120VAC/DC	
ECX2071-24R	Red	\$8.50	22mm, 25mA audible (80dB at 10cm) buzzer annunciator with non-replaceable LED indicator. 24VAC/DC	
ECX2071-127R	Red	\$8.50	22mm, 25mA audible (80dB at 10cm) buzzer annunciator with non-replaceable LED indicator.120VAC/DC	

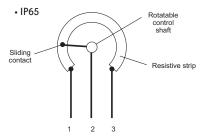
Dimensions: mm [inches]

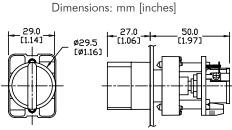


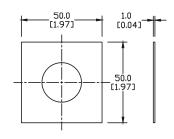
22mm potentiometer



Part Number	Quantity	Price	Description
ECX2300-5K	pkg. of 1	\$36.50	22mm potentiometer with $5k\Omega$ resistance, $\pm 10\%$. Nominal voltage: 250V. Rated dissipation: 2W at 25°C. Temperature range -40°C to 70°C. Black handle. Connection type is screw terminal, 3-pole, 22-14 AWG.
ECX2300-10K	pkg. of 1	\$36.50	22mm potentiometer with 10kΩ resistance, ±10% Nominal voltage: 250V Rated dissipation: 2W at 25°C. Temperature range -40°C to 70°C. Black handle. Connection type is screw terminal, 3-pole, 22-14 AWG.
ECX2640	pkg. of 1	\$3.50	22mm legend plate for potentiometer with 0% to 100% marking, 50mm square. $50 \times 50 \times 100$ mm with 24.5 mm cutout.







For accessories, see 22mm Metal Pilot Device Accessories in this section.

Replacement incandescent bulbs



ECX1902-5

Replacement Incandescent Bulbs							
Part Number Quantity Price Rating Description							
ECX1900-5	Pkg of 5 bulbs	\$8.50	6V@ 200mA , 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4			
ECX1902-5	Pkg of 5 bulbs	\$8.50	24V@ 80mA 2 watts	24V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4			
ECX1904-5	Pkg of 5 bulbs	\$17.50	130V@20mA 2.6 watts	120V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4			

Note: Bulb removal tool available. Order part number HT8LAMPTOOL.

Replacement LED lamps



ECX1915-2

	Replacement LED Lamps									
Part Number	Color	Quantity	Price	Rating	Description					
ECX1911-2	Red		\$15.50							
ECX1912-2	Green		\$19.50] 						
ECX1913-2	Yellow		\$15.50	24V@26mA 0.6 watts						
ECX1914-2	Blue		\$21.00		LED replacement lamp for miniature bayonet bases Works with 22mm switches and indicators, but illumination will not be as even when used with the ECX 22mm indicators					
ECX1915-2	White	Pkg of 2	\$25.00							
ECX1921-2	Red	LED lamps	\$15.50							
ECX1922-2	Green		\$19.50		Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.					
ECX1923-2	Yellow		\$15.50	120V@5mA -0.6 watts						
ECX1924-2	Blue		\$21.00	0.0 Hallo						
ECX1925-2	White		\$25.00							

Hole plug



ECX1490

Hole Plug						
Part Number	Color	Price	Description			
ECX1490	Black	\$2.75	Plastic hole plug for 22.5 mm openings in panels and enclosures; supplied with O-ring and mounting screw. Two plugs per package.			

Pilot Light replacement lens



PL1170PR-5

	Pilot Light Replacement Lens						
Part Number	nber Lamp Color Price Descripton		Descripton	Use with			
PL1170PR-5	Red	\$6.00	22mm metallic series pilot light replacement lens, 5/pk				
PL1170PV-5	Green	\$6.00	22mm metallic series pilot light replacement lens, 5/pk				
PL1170PG-5	Yellow	\$6.00	22mm metallic series pilot light replacement lens, 5/pk	Part numbers starting with			
PL1170PB-5	Blue	\$6.00	22mm metallic series pilot light replacement lens, 5/pk	GCX123			
PL1170PN-5	Clear	\$6.00	22mm metallic series pilot light replacement lens, 5/pk				
PL1170PW-5	White	\$6.00	22mm metallic series pilot light replacement lens, 5/pk				

tPIL-40 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Protective covers for pushbuttons



ECX1703-5

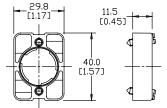
Protective Covers for Pushbuttons							
Part Number	Color	Quantity	Price	Description			
ECX1700-5	Black		\$6.50				
ECX1701-5	Red		\$6.50	Silicone protective covers for use with 22mm standard-size flush			
ECX1702-5	Green		\$6.50	pushbuttons.			
ECX1703-5	Yellow	Pkg of 5 Protective	\$6.50	Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or extended pushbuttons, or 22mm plastic pushbuttons			
ECX1704-5	Blue	caps	\$6.50	with 40mm actuator face.			
ECX1705-5	Clear		\$6.50				
ECX1706-5	Clear		\$11.50	Clear silicone protective covers for use with 2 mm illuminated and extended pushbuttons only. Will not work with Cutler-Hammer pushbuttons or 22mm mushroom pushbuttons.			

Replacement 22mm support base



ECX1029-2

Replacement 22mm Support Base			
Part Number	Quantity	Price	Description
ECX1029-2	Pkg of 1	\$6.00	22mm metal support base Note: This item is supplied as a replacement part and is not required with any switch assembly. Will not work with Cutler-Hammer 22mm switches sold by AUTOMATION DIRECT



Dimensions: mm [inches]

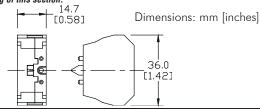
Replacement contact blocks



ECX1030-2

		Replac	ement Contact	Blocks
Part Number	Quantity	Price	Contacts	Description
ECX1030-2	Pkg of 2	\$6.25	Red,	Replacement contact block for 22mm pushbuttons
ECX1030-5	Pkg of 5	\$15.00	normally-closed (N.C.)	Tightening Torque, terminal screw: 0.8Nm max
ECX1040-2	Pkg of 2	\$6.25	Green,	mounting screw: 0.5Nm max Note: Will not work with Cutler-Hammer 22mm
ECX1040-5	Pkg of 5	\$15.00	normally-open (N.O.)	switches.
ECX1042-2	Pkg of 2	\$6.25	Brown, normally-open (N.O.), push-push	Replacement normally open push-push contact blocks for 22mm pushbutton and selector switches, pack of 2. Note: Will not work with Cutler-Hammer 22mm switches.

Note: See electrical specifications on ECX Series 22mm Metal Pilot Devices Specifications page at beginning of this section.



Replacement Keys			
Part Number	Quantity	Price	Description
ECX1067-2	Pkg of 2 sets (2 keys per set)	\$5.75	Replacement key for GCX series key-actuated selector switches, pack of 2 sets (2 keys each). NOTE: Will not work with Cutler-Hammer 22mm switches.

Note: All key-actuated 22mm metal selector switches are keyed alike.

Replacement keys



EMERGENCY STOP legend plate



ECX1651

EMERGENCY STOP Legend Plate			
Part Number	Quantity	Price	Description
ECX1651	Pkg of 1	\$2.75	Oversize yellow circular EMERGENCY STOP legend plate for 22mm E-stop type mushroom pushbuttons, 60mm outside diameter.

Knockout Punches



Ruko's knockout punch hole-cutting tool includes punch, die and draw bolt (without ball bearing). Use for sheet steel, stainless-steel sheets, non-ferrous and light metals, and plastics up to 0.16'' (8 ga.) thick.

Replacement bolts are offered in three of the most popular sizes.

Note: Part number 109225 is recommended when punching holes for 22mm pilot devices.

Two-position short lever operator



GR1172PR-5

Short Lever Replacement Operator					
Part Number	Lamp Color	Price	2-Position	Use with	
GR1172PR-5	Red	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk		
GR1172PV-5	Green	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with	
GR1172PG-5	Yellow	GCX124, GC QCX124, GC		GCX124, GCX125 GCX324, GCX325	
GR1172PB-5	Blue	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk		
GR1172PN-5	Clear	\$14.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk		

Three-position short lever operator



GR1288PR-5

	Short Lever Replacement Operator						
Part Number	Lamp Color	Price	3-Position	Use with			
GR1288PR-5	Red	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
GR1288PV-5	Green	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
GR1288PG-5	Yellow	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128 GCX326. GCX328			
GR1288PB-5			22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	300020, 000020			
GR1288PN-5	Clear	\$14.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				

Mushroom switch replacement operator



	Mushroom Switch Replacement Operator				
Part Number	Lamp Color	Price	Description	Use with	
PL1171PR-5	Red	\$6.25	22mm, illuminated momentary Mushroom switch replacement operator, red, 5/pk	Part numbers starting with GCX1221, GCX3221 mushroom-style illuminated pushbuttons	
PL1298P-5	Red		22mm illuminated twist-to-release mushroom switch replacement operator, red, 5/pk	Part numbers starting with GCX1226, GCX3226 mushroom-style illuminated pushbuttons	

Flush pushbutton replacement operator



	Flush Pushbutton Replacement Operator					
Part Number	Lamp Color	Price	Description	Use with		
GR1168PR-5	Red	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk			
GR1168PV-5	Green	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk			
GR1168PG-5	Yellow	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	Part numbers starting with GCX119. GCX120		
GR1168PB-5	Blue	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX319, GCX320		
GR1168PN-5	Clear	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk			
GR1168PW-5	White	\$8.00	22mm illuminated flush pushbutton replacement operator, 5/pk			

Extended pushbutton replacement operator



PL1308PR-5

	Extended Pushbutton Replacement Operator					
Part Number	Lamp Price		Description	Use with		
PL1308PR-5	Red	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk			
PL1308PV-5	Green	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk			
PL1308PG-5	Yellow	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk	Part numbers starting with		
PL1308PB-5	Blue	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk	GCX121, GCX321		
PL1308PN-5	Clear	\$6.00	0 22mm illuminated extended pushbutton, replacement operator, 5/pk			
PL1308PW-5	White	\$6.00	22mm illuminated extended pushbutton, replacement operator, 5/pk			

Emergency Stop Control Stations

Features

- 3-pole positive guided contacts
- Plastic housings (IP67) or stainless steel 316 housings (IP69K/NEMA 6)
- 40mm twist-to-release mushroom head operator
- · Conformance to ISO 13850, IEC 60947-5-1 and IEC 60947-5-5
- 2 conduit entries (all entries sealed)
- UL File E365665

- · Lid safety trip mechanism ensures that safety contacts will open if the lid is removed
- Models available with button protection guard and padlock holes
- Includes one tamper-proof T20 Torx bit for stainless steel versions







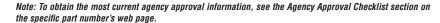
ES-P-230001



ES-SS-231002

	3-Pole Emergency Stop Control Stations							
Part Number	Housing Type	Contacts	Wiring Diagram	Conduit Entry	Price			
ES-P-230001	Plastic	2NC 1NO	Figure 1	Knockout	\$29.00			
ES-P-230002	Flasiic	3NC	Figure 2	(2) M20 (2) ½" NPT	\$29.00			
ES-SS-231002	Stainless steel 316	2NC 1NO	Figure 1	(2) ½" NPT	\$128.00			
ES-SS-231004	Stairiless steel 310	3NC	Figure 2		\$128.00			
ES-SSP-231006	Stainless steel 316	2NC 1NO	Figure 1	- (2) ½" NPT	\$130.00			
ES-SSP-231008	with button protection guard and padlock holes	3NC	Figure 2		\$130.00			

Safety Classif	ication and Reliability Data
Mechanical Reliability B10d	1.5 x 106 operations at 100mA load
ISO 13849-1	Up to PLe depending upon system architecture
EN 62061	Up to SIL3 depending upon system architecture
Safety Data - Annual Usage	8 cycles per hour / 24 hours per day / 365 days
PFHd	< 1.0 x 10 ⁻⁷
Proof Test Interval (Life)	21 years
MTTFd	214 years
Electrical ar	nd General Specifications
Enclosure / Cover	Polyester or Stainless Steel 316
IP Rating / NEMA	IP67 Plastic / IP69K Stainless Steel / NEMA 6
Mounting	(4) M4
Mounting Position	Any
Conduit Entries	(2) ½" NPT for Stainless Steel housing Knockout (2) M20 / (2) ½" for Plastic housing
Torque Settings	Mounting: M4 4.0 N·m Lid: T20 Torx M4 1.5 N·m Terminals: 1.0 N·m
Ambient Temperature	-25°C to +80°C (-13°F to +176°F)
Vibration Resistance	0.35 mm @ 10-500 Hz
Shock Resistance	15g @ 11ms
Weight	Plastic: 250g (0.55 lb) Stainless Steel: 1000g (2.20 lb)
Contact Type	IEC 947-5-1 double break type Zb Snap action up to 3NC (positive break) 1NO (Auxiliary)
Contact Material	Silver
Termination	Clamp up to 2.5 mm ² conductors
IEC / NEMA Contact Rating	Utilization category: AC15 / A300
Operational Rating	240VAC 3A / 120VAC 6A
Thermal Current (I _{th})	10A
Rated Insulation Voltage (U _i)	500V
Withstand Voltage (U _{imp})	2500V
Short Circuit Overload Protection	Fuse externally 10A (fuse type FF)
Approvals	IEC 60947-5-1, IEC 60947-5-5, EN62061, UL508, IS013850, IS013849-1





ES-SSP-231006



Type ES-SSP with button protection guard and padlock holes

(Padlock hole diameter 1/4". Padlock shaft must exceed 2" closed)

tPIL-44 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

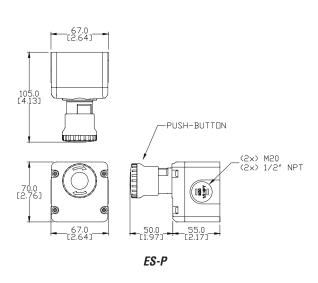


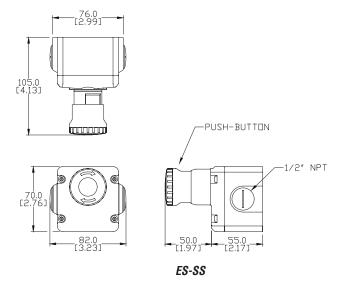
Emergency Stop Control Stations

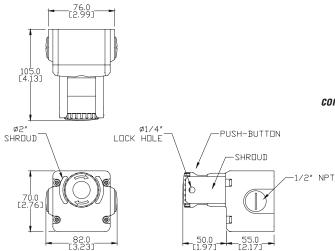
Dimensions

mm [inches]





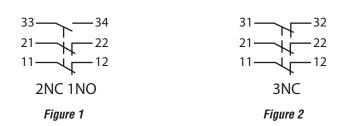




ES-SSP

Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Wiring Diagrams



Emergency Stop Control Stations

Features

- 4-pole positive guided contacts
- Stainless Steel 316 housings (IP69K/NEMA 6)
- 40mm twist-to-release mushroom head operator
- Conformance to ISO 13850, IEC 60947-5-1 and IEC 60947-5-5
- 3 conduit entries (all entries sealed)
- Emergency stop legend plate included
- UL File E365665

- Lid safety trip mechanism ensures that safety contacts will open if the lid is removed
- Models available with button protection guard and padlock holes
- Models available with 2-color LED
- Includes one tamper-proof T20 Torx bit for stainless steel versions







ESL-SS-232002

	4-Pole Emergency	Stop Cont	rol Stations		
Part Numbers	Housing Type	Contacts	Wiring Diagram	Conduit Entry	Price
ESL-SS-232002		2NC 2NO	Figure 1		\$130.00
ESL-SS-232004	Stainless steel 316	3NC 1NO	Figure 2		\$130.00
ESL-SS-232006		4NC	Figure 3	1 [\$130.00
ESL-SSP-232010		2NC 2NO	Figure 1		\$135.00
ESL-SSP-232012	Stainless steel 316 with protection guard and padlock holes	3NC 1NO	Figure 2	(3) ½" NPT	\$135.00
ESL-SSP-232014	gaara arra paaroon moreo	4NC	Figure 3		\$135.00
ESL-SSL-232018-AS	Stainless steel 316 with 2-color 24VDC LFD	2NC 2NO	Figure 1		\$155.00
ESL-SSL-232020-AS	(steady green, steady red)	3NC 1NO	Figure 2		\$155.00
ESL-SSL-232018-BS	Stainless steel 316 with 2-color 110VAC LED	2NC 2NO	Figure 1		\$159.00
ESL-SSL-232020-BS	(steady green, steady red)	3NC 1NO	Figure 2		\$159.00
ESL-SSLP-232024-AS	Stainless steel 316 with 2-color	2NC 2NO	Figure 1		\$165.00
ESL-SSLP-232026-AS	24VDC LED and protection guard with padlock holes	3NC 1NO	Figure 2		\$165.00
ESL-SSLP-232024-BS	Stainless 316 steel with 2-color 110VAC LED and protection guard	2NC 2NO	Figure 1		\$169.00
ESL-SSLP-232026-BS	with padlock holes	3NC 1NO	Figure 2	1	\$169.00

Safety (Safety Classification and Reliability Data							
Mechanical Reliability B10d	1.5 x 10 ⁶ operations at 100mA load							
ISO 13849-1	Up to PLe depending upon system architecture							
EN 62061	Up to SIL3 depending upon system architecture							
Safety Data - Annual Usage	8 cycles per hour / 24 hours per day / 365 days							
PFHd	< 1.0 x 10 ⁻⁷							
Proof Test Interval (Life)	21 years							
MTTFd	214 years							
Electi	rical and General Specifications							
Enclosure / Cover	Stainless Steel 316							
IP Rating / NEMA	IP69K / NEMA 6							
Mounting	(4) M4							
Mounting Position	Any							
Conduit Entries	(3) ½" NPT							
Torque Settings	Mounting: M4 4.0 N·m Lid: T20 Torx M4 1.5 N·m Terminals: 1.0 N·m							
Ambient Temperature	-25°C to +80°C (-13°F to +176°F)							
Vibration Resistance	0.35 mm @ 10-500 Hz							
Shock Resistance	15g @ 11ms							
Weight	820g (1.81 lb)							
Contact Type	IEC 947-5-1 double break type Zb Snap action up to 4NC (positive break) 2NO (Auxiliary)							
Contact Material	Silver							
Termination	Clamp up to 2.5 mm ² conductors							
IEC / NEMA Contact Rating	Utilization category: AC15 / A300							
Operational Rating	240VAC 3A / 120VAC 6A							
Thermal Current (I _{th})	10A							
Rated Insulation Voltage (U _i)	500V							
Withstand Voltage (U _{imp})	2500V							
Short Circuit Overload Protection	Fuse externally 10A (fuse type FF)							
Approvals	IEC 60947-5-1, IEC 60947-5-5, EN62061, UL508, ISO13850, ISO13849-1							

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.



ESL-SSP-232010



ESL-SSL-232018-AS



ESL-SSLP-232024-AS



Type ESL-SSLP with button protection guard and padlock holes

(Padlock hole diameter 1/4". Padlock shaft must exceed 2" closed)

tPIL-46 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Emergency Stop Control Stations Dimensions . 72.0 [2.83] mm [inches] _ 72.0 [2.83] 105.0 [4.13] 105.0 [4.13] ø24 Ø1/4″ LOCK HOLE -PUSH-BUTTON SHROUD PUSH-BUTTON -1/2" NPT 1/2" NPT 101.0 [3.98] ESL-SS ESL-SSP . 72.0 [2.83] _ 72.0 [2.83] 105.0 [4.13] PUSH-BUTTON PLISH-BLITTON SHROUD LOCK HOLE 1/2" NPT -1/2" NPT 101.0 [3.98]

Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

72.0 [2.83]

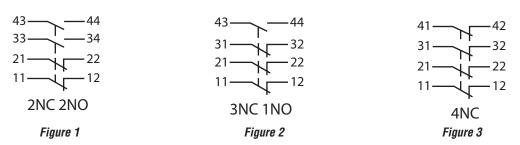
Wiring Diagrams

_ 72.0 [2.83]

LED

ESL-SSL

105.0 [4.13]



LED Wiring Note: Black (or Terminal 2) is OV (or Neutral for 110V AC versions). When power is applied to the Red wire (or Terminal 1), the LED will illuminate Red. When power is applied to the Green wire (or Terminal 3), the LED will illuminate Green.

105.0

ESL-SSLP

Foot Switches



Applications

Choose these switches for foot switch-operated machines such as shearing machines, spinning machines, spinning lathes, machine tools, wrapping machines, riveting machines, and riveting presses.

AutomationDirect stocks foot switches in these operational formats:

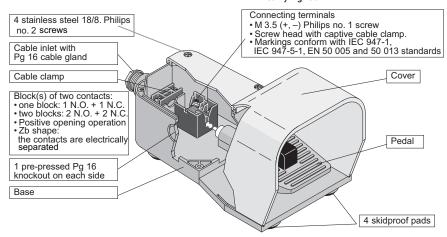
- Free movement (momentary):
 Contact position follows pedal movement; actuated when the pedal is pushed down, released when pedal is in state of rest.
- Foot switch locked in neutral position (safety anti-trip momentary):
 Same operation as above, after unlocking the pedal with the foot.
- Foot switch latched in low position (maintained):
 Same operation as free movement, except that a state of rest is obtained only after pedal is unlatched.



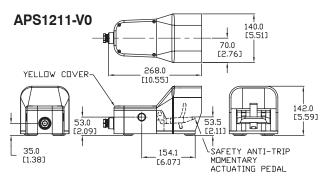


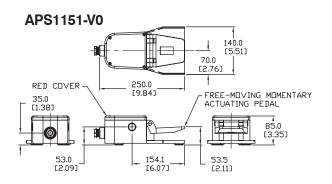
Description

- Plastic Unit Material Base, cover and pedal of shock-resistant ABS plastic material
- Aluminum Unit Materials
 Base and pedal of shock-resistant
 ABS plastic material;
 cover of die-cast aluminum
- Double switches include a 16" carrying rod

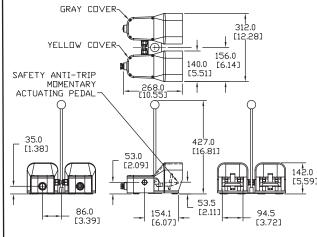


Dimensions mm [inches]





APD1231-V0



tPIL-48 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Foot Switches

All footswitches have heavy duty ABS plastic bases.



	ABS Plastic Foot Switch Selection						
Part Number	Cover Color	Price	Description				
APS1211-V0	Yellow	\$39.50	Single, ABS plastic, safety actuating lever, 1 N.O. and 1 N.C. snap action contacts				
APS1213-V0	Yellow	\$44.50	Single, ABS plastic, safety actuating lever, 2 N.O. and 2 N.C. snap action contacts				
APS1151-V0	Half Red	\$39.50	Single, ABS plastic, free-moving mounting, 1 N.O. and 1 N.C. snap action contacts				
APD1231-V0	One Yellow One Gray	\$86.00	Double, ABS plastic, safety actuating lever, 1 N.O. and 1 N.C. snap action contacts for each switch				







APS1213-V0-M



	'	Die-	cast Aluminum Foot Switch Selection
Part Number	Cover Color	Price	Description
APS1113-V0-M	Yellow	\$59.00	Single, die-cast aluminum, free moving momentary actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1114-V0-M	Yellow	\$59.00	Single, die-cast aluminum, free moving momentary actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1123-V0-M	Gray	\$59.00	Single, die-cast aluminum, free moving momentary actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1124-V0-M	Gray	\$59.00	Single, die-cast aluminum, free moving momentary actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1143-V0-M	Red	\$59.00	Single, die-cast aluminum, free moving momentary actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1144-V0-M	Red	\$59.00	Single, die-cast aluminum, free moving momentary actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1213-V0-M	Yellow	\$65.00	Single, die-cast aluminum, safety anti-trip momentary actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1214-V0-M	Yellow	\$65.00	Single, die-cast aluminum, safety anti-trip momentary actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1223-V0-M	Gray	\$65.00	Single, die-cast aluminum, safety anti-trip momentary actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1224-V0-M	Gray	\$65.00	Single, die-cast aluminum, safety anti-trip momentary actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1243-V0-M	Red	\$65.00	Single, die-cast aluminum, safety anti-trip momentary actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1244-V0-M	Red	\$65.00	Single, die-cast aluminum, safety anti-trip momentary actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1313-VO-M	Yellow	\$65.00	Single, die-cast aluminum, free moving maintained actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1314-V0-M	Yellow	\$65.00	Single, die-cast aluminum, free moving maintained actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1323-VO-M	Gray	\$65.00	Single, die-cast aluminum, free moving maintained actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1324-VO-M	Gray	\$65.00	Single, die-cast aluminum, free moving maintained actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APS1343-VO-M	Red	\$65.00	Single, die-cast aluminum, free moving maintained actuating pedal, 2 N.O. and 2 N.C. snap action contacts
APS1344-V0-M	Red	\$65.00	Single, die-cast aluminum, free moving maintained actuating pedal, 2 N.O. and 2 N.C. slow action contacts
APD1113-V0-M	Yellow	\$139.00	Double, die-cast aluminum, 2 free moving momentary actuating pedals, each with 2 N.O. and 2 N.C. snap action contacts
APD1114-V0-M	Yellow	\$139.00	Double, die-cast aluminum, 2 free moving momentary actuating pedals, each with 2 N.O. and 2 N.C. slow action contacts
APD1123-V0-M	Gray	\$139.00	Double, die-cast aluminum, 2 free moving momentary actuating pedals, each with 2 N.O. and 2 N.C. snap action contacts
APD1124-V0-M	,	\$139.00	Double, die-cast aluminum, 2 free moving momentary actuating pedals, each with 2 N.O. and 2 N.C. slow action contacts
APD1133-V0-M	One Yellow One Gray	\$139.00	Double, die-cast aluminum, 2 free moving momentary actuating pedals, each with 2 N.O. and 2 N.C. snap action contacts
APD1134-V0-M	One Yellow One Gray		Double, die-cast aluminum, 2 free moving momentary actuating pedals, each with 2 N.O. and 2 N.C. slow action contacts
APD1213-V0-M	Yellow	\$143.00	Double, die-cast aluminum, 2 safety anti-trip momentary actuating pedals, each with 2 N.O. and 2 N.C. snap action contacts
APD1214-V0-M	Yellow	\$143.00	Double, die-cast aluminum, 2 safety anti-trip momentary actuating pedals, each with 2 N.O. and 2 N.C. slow action contacts
APD1223-V0-M	Gray	\$143.00	Double, die-cast aluminum, 2 safety anti-trip momentary actuating pedals, each with 2 N.O. and 2 N.C. snap action contacts
APD1224-V0-M	Gray	\$98.25	Double, die-cast aluminum, 2 safety anti-trip momentary actuating pedals, each with 2 N.O. and 2 N.C. slow action contacts
APD1233-V0-M	One Yellow One Gray	\$143.00	Double, die-cast aluminum, 2 safety anti-trip momentary actuating pedals, each with 2 N.O. and 2 N.C. snap action contacts
APD1234-V0-M	One Yellow One Gray	\$143.00	Double, die-cast aluminum, 2 safety anti-trip momentary actuating pedals, each with 2 N.O. and 2 N.C. slow action contacts

Foot Switches Technical Specifications

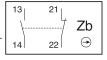
	Foot Switch Ge	neral Technical Data		
Standards		IEC 947-5-1		
Certifications - Approvals		UL/CUL file E191072, CE, RoHS		
Temperature		Operating (ambient) air temperature: $-10 \text{ to} + 70^{\circ}\text{C} (14^{\circ}\text{F to} 158^{\circ}\text{F})$ Storage (non-operating) air temperature: $-30 \text{ to} + 80^{\circ}\text{C} (-22^{\circ}\text{F} - 176^{\circ}\text{F})$		
Environmental		According to IEC 68-2-3 and salty mist according to IEC 68-2-11		
Shock (according to IEC 68-2-27 and EN 6	0 068-2-27)	50g (1/2 sinusoidal shock for 11 ms) no change in contact position		
Degree of Protection (according to IE	C 529 and EN 60 529)	IP 65		
Operating Torque		0.25 N·m (2.2 lb·in)		
Torque - Terminal Screw		Recommended: 0.8 N·m (7.0 lb.in); Maximum 0.9 N·m (8.0 lb·in)		
Torque - Cover Screw		Recommended: 5.0 N·m (4.3 lb.in); Maximum 0.8 N·m (7.0 lb·in)		
Operating Angle		15 Degree		
Cable Inlet		Pg 16 x 1.41 knockout		
	Foot Switch	ı Electrical Data		
Rated Insulation voltage U _i		690V (according to IEC 947-1 and EN 60-947-1) Degree of pollution 3		
Rated Impulse Withstand Voltag	e U _{imp}	6kV (according to IEC 947-1 and EN 60 947-1)		
Conventional Free Air Thermal (I_{th} $\Theta < 40$ °C	Current	10A (according to IEC 947-1)		
Short-circuit Protection U _e < 500V AC gG (gl) type fuses		10A		
Rated Operational Current		A 600 (according to UL 508 and CSA C22-2 n° 14) Q 600 (according to UL 508 and CSA C22-2 n° 14		
AC-15 (according to IEC 947-5-1) DC-13 (according to IEC 947-5-1)	24V 120V 230V 240V 400V 24V	10A 6A 3.1 A 3A 1.8 A 2.8 A		
	125V 250V	0.55 A 0.27 A		
Resistance Between Contacts		25m $Ω$		
Connecting Terminals		M3.5 (±) Philips head #1 with cable clamp		
Positive Opening Operation (according to IEC 947-5-1)		Yes. Marked by		
Connecting Capacity		(1 or 2 x mm ²⁾ 0.75 to 2.5		
Terminal Marking		According to EN 50 013		
Life Expectancy		Mechanical: 30 million operations Electrical Operations: Utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves)		

Wiring

Snap-action contact: A contact element in which the contact motion is independent of the speed of the actuator. This feature ensures reliable electrical performance even in applications involving very slow moving actuators.

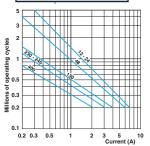
Slow-make/slow-break contact: A contact element in which the contact motion is dependent on the actuator speed.

Snap Action or Slow Action 1 N.O. and 1 N.C.

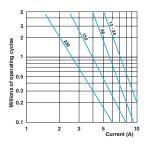


Note: See contact block accessories for AGZ11-SWITCH and AGX11-SWITCH replacement contact block (contact blocks have adjustable screw actuator).

AC-15 - Snap Action



AC-15 - Slow Action



DC-13	Snap Action	Slow Action		
Power breaking for a durability of 5 million operating cy				
Voltage 24V	9.5 W	12W		
Voltage 48V	6.8 W	9W		
Voltage 110V	3.6 W	6W		

tPIL-50 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Gasket Material Degree of Protection

Plastic Enclosures for 22mm Pilot Devices

Enclosure Material

Switch enclosures



Also check out our metal pushbutton enclosures in the Enclosures section.

Thermoplastic ABS, conforms to UL94/HB | Caoutchouc (rubber) foam | IP65 according to CEI EN 60529

Enclosures have molded knock-outs for 1/2" conduit fittings.

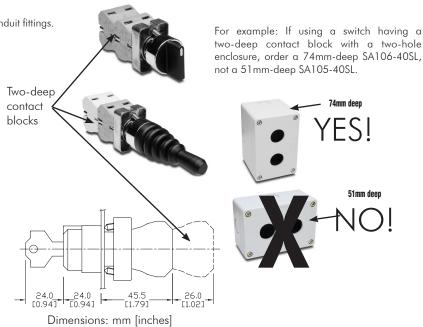
Important notes about enclosure depth and over-tightening

Switches with two-deep contact blocks require enclosures that are 74mm deep: 51mm-deep enclosures are too shallow and the switch contact block will not fit.

For switches with one-deep contact blocks, either 51mm-deep or 74mmdeep enclosures can be used.

Also, do not over-tighten when securing switch in the enclosure body. Overtightening will crack the plastic body of the enclosure.

When installing pushbutton, switches, and joysticks with securing screws, ensure that they have good purchase on area away from the perforated keyway slots made for other switch types. Securing screws should be tightened to 4.5 lb·in or less.



No-hole model

Part Number	Color	Price	Dimensions (HxWxD)	Hole Size/Depth	Mounting Instructions
SA111-00	Gray	\$12.00	225x70x74	No Holes	Tighten 22mm devices only as needed to provide proper sealing. Over-tightening will crack plastic body.

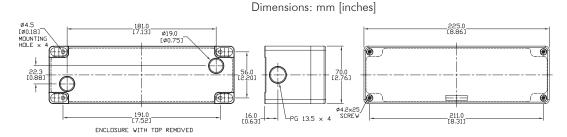


74mm deep:

SA111-00



Note: This enclosure works with most 22mm pushbuttons but may not work with Cutler-Hammer E22 series pushbuttons. Check your pushbutton dimensions before ordering.



Plastic Enclosures for 22mm Pilot Devices

[Ø0.13] COVER SCREW HOLE Ø19.0

Single-hole models





Part Number	Color	Price	Dimensions (HxWxD)	Hole Size/Depth	Mounting Instructions	
SA100SL	Gray	\$6.50		Hole size fits 22mm devices,	Tighten 22mm devices	
SA101SL	Gray body/yellow top	\$7.00	70x70x51	single-deep contact block switches	only as needed to provide proper sealing. Over-tightening will crack	
SA103SL	Gray	\$7.50	70x70x74	Hole size fits 22mm devices,		
SA104SL	Gray body/yellow top	\$7.75			plastic body.	

51mm deep:

SA100SL SA103SL SA101SL SA104SL

Dimensions: mm [inches]

PG 13.5 x 2

70.0

12.201

PG 13.5 x 2

70.0

12.761

70.0

12.763

16.0 [0.63]

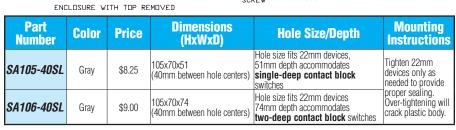
> ø22.5 [ø0.89]

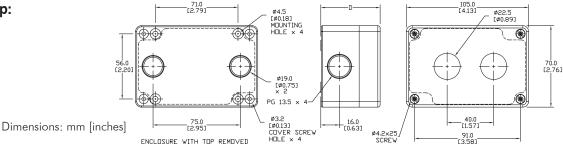
Two-hole models



51mm deep:

SA105-40SL





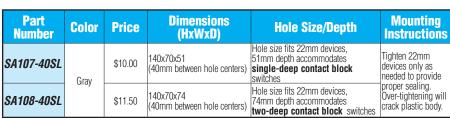
Three-hole models

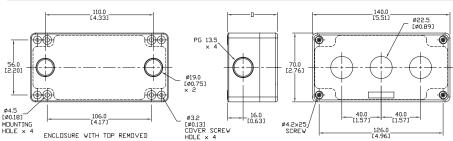


51mm deep:

SA107-40SL

Dimensions: mm [inches]





tPIL-52 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Mounting

Instructions

Tighten 22mm

devices only as needed to provide

proper sealing. Over-tightening will crack plastic body.

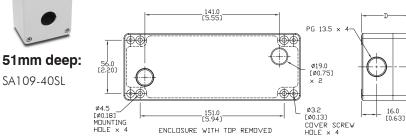
Plastic Enclosures for 22mm Pilot Devices

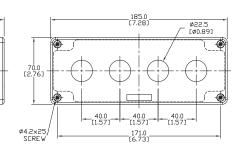
Four-hole models



Part Number	Color	Price	Dimensions (HxWxD)	Hole Size/Depth
SA109-40SL		\$11.50		Hole size fits 22mm devices, 51mm depth accommodates single-deep contact block switches
SA110-40SL	Gray	\$13.50		Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches

Dimensions: mm [inches]





Five-hole and six-hole models





Part Number	Color	Price	Dimensions (HxWxD)	Hole Size/Depth	Mounting Instructions
SA111		\$12.00		Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	Tighten 22mm devices only as needed to provide
SA112	Gray	\$12.50	(30mm between hole centers,	74mm depth accommodates	proper sealing. Over-tightening will crack plastic body.

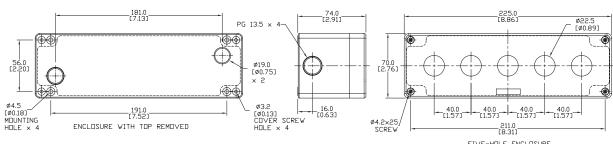
Note: These enclosures work with most 22mm pushbuttons, but may not work with Cutler-Hammer E22 series pushbuttons. Check your pushbutton dimensions before ordering.

74mm deep: 74mm deep:

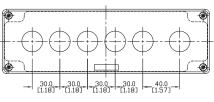
SA111

SA112

Dimensions: mm [inches]



FIVE-HOLE ENCLOSURE



SIX-HOLE ENCLOSURE

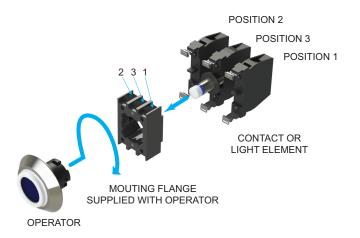


Control and Signaling Devices

Schmersal control and signaling devices have a number of special design features that make the devices suitable for food processing, pharmaceutical, and medical applications. When utilized in food processing machines, these devices comply with the special cleaning requirements of the industry to prevent cross-contamination, particularly when used in machines that process raw goods. With an ingress protection rating of IP69K, Schmersal control and signaling devices are also suitable for marine applications, traffic systems, commercial vehicles, and in dusty and dirty environments.

Features

- Special seals prevent product residue from penetrating in the gaps between the fixed and moving device parts, thus preventing the collection of dirt and bacteria in places that are not easily accessible for cleaning.
- Smooth designs make the devices easy to clean.
- Modular contact and light terminal blocks make the devices easy to install.



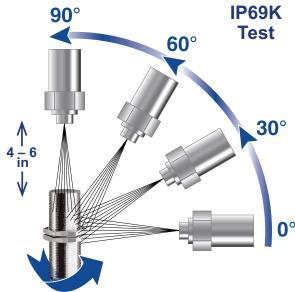
IP69K Ingress Protection Rating Overview

IP69K high-pressure cleaning test

This rating applies to devices tested in accordance with DIN 40050-9. The goal of this test is to duplicate pressure cleaning conditions on a plant floor. In the test fixture, the devices are exposed to a 1450psi spray of water at a temperature of 175°F. The duration of each cleaning cycle is 30 seconds. The test is performed at specified angles using a spray nozzle located at a distance of 4" from the devices. Devices with this rating must withstand test conditions and still be operable. This rating ensures water proofing protection that exceeds NEMA 4X rating.

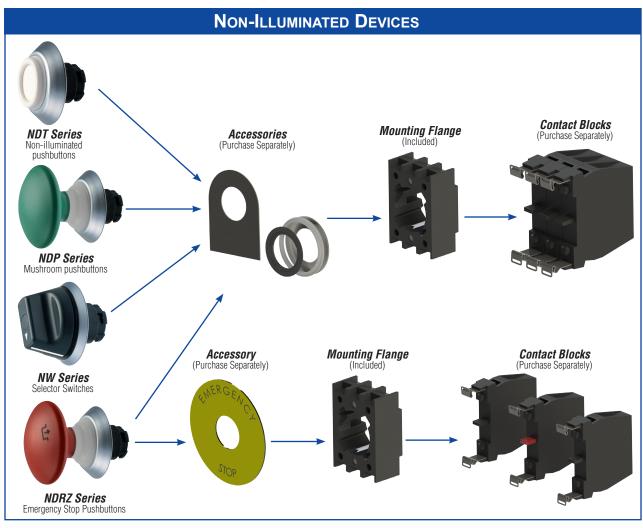
Thermal endurance

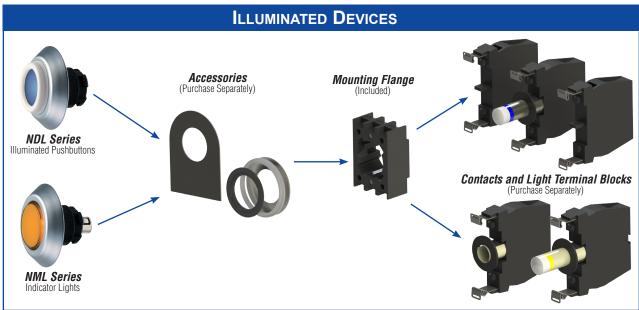
In pressure environments, controls and signaling devices can be exposed to extreme temperature conditions. To meet the criteria for IP69K rating, devices must undergo a thermal shock test by cycling the environmental temperature to ensure consistent high reliability.





S SCHMERSAL Modular Design Flexibility





S SCHMERSAL Non-Illuminated 22mm IP69K **Plastic Pushbuttons**



NDTBL



NDTGB



NDTGN

No	n-Illumina	ited 22mm	IP69K Pla	astic Push	buttons*		
Part Number	NDTBL	NDTGB	NDTGN	NDTGR	NDTRT	NDTSW	NDTWS
Color	Blue	Yellow	Green	Gray	Red	Black	White
Price	\$13.00	\$13.00	\$13.00	\$13.00	\$13.00	\$13.00	\$13.00
Description		Momentary act	ion non-illumin	ated IP69K pus	hbuttons with r	mounting flange	
Mounting diameter		22.3 mm [0.88 in]					
Actuating stroke	5mm						
Dome material	ABS						
Front ring material		ABS, chromium-plated					
Front panel thickness				1.5 to 6 mm			
Weight				25g [0.88 oz]			
Mounting screws tightening torque			0.	6 N·m [0.44 lb·	ft]		
Ambient temperature			-25°C to	+80°C [-13°F t	o +176°F]		
Shock resistance				<50g			
Vibration resistance		5g					
Ingress protection rating		·		IP67 and IP69k			
Standards		E	N 60947-5-1; II	EC/EN 60947-1	; UL File E5764	48	

^{*}Operator only. Purchase contact blocks separately.



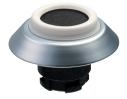




NDTGR



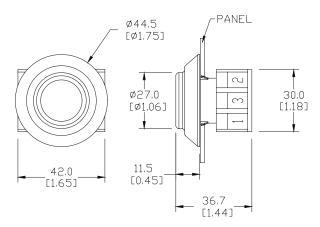
NDTRT



NDTSW



Dimensions mm [in]



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

tPIL-56 **Pilot Devices** 1 - 8 0 0 - 6 3 3 - 0 4 0 5

S SCHMERSAL Illuminated 22mm IP69K **Plastic Pushbuttons**



NDLBL



NDLGB



NDLGN

Illu	Illuminated 22mm IP69K Plastic Pushbuttons*									
Part Number	NDLBL	NDLGB	NDLGN	NDLRT	NDLWS					
Color	Blue	Yellow	Green	Red	White					
Price	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00					
Description	Momentary action illuminated IP69K pushbuttons with mounting flange									
Mounting diameter	22.3 mm [0.88 in]									
Actuating stroke	5mm									
Dome material	ABS									
Front ring material	ABS, chromium-plated									
Front panel thickness	1.5 to 6 mm									
Weight			30g [1.06 oz]							
Mounting screws tightening torque			0.6 N·m [0.44 lb·ft]							
Ambient temperature		-25°C	to +80°C [-13°F to	+176°F]						
Shock resistance			<50g							
Vibration resistance			5g							
Ingress protection			IP67 and IP69K							
Standards		EN 60947-5-1	; IEC/EN 60947-1; I	UL File E57648						

^{*}Operator only. Purchase contact and light blocks separately.





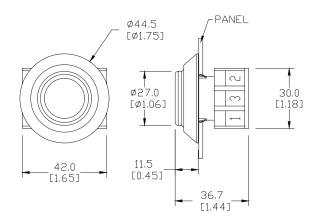


NDLRT

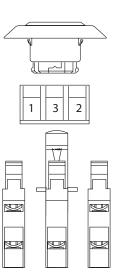


NDLWS

Dimensions mm [in]



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.



S SCHMERSAL Non-Illuminated IP69K Mushroom Pushbuttons



NDP50BL



NDP50GB



NDP50GN

Non-	-Illuminated	IP69K Mushr	oom Pushbut	ttons*		
Part Number	NDP50BL	NDP50GB	NDP50GN	NDP50SW	NDP50WS	
Color	Blue	Yellow	Green	Black	White	
Price	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	
Description	Momentary act	tion non-illuminated	d IP69K mushroom	pushbuttons with n	nounting flange	
Mounting diameter			22.3 mm [0.88 in]			
Actuating stroke			5mm			
Dome material	ABS					
Front ring material	ABS, chromium-plated					
Front panel thickness	1.5 to 6 mm					
Weight	50g [1.76 oz]					
Mounting screws tightening torque	0.6 N·m [0.44 lb·ft]					
Ambient temperature	-25°C to +80°C [-13°F to +176°F]					
Shock resistance	<50g					
Vibration resistance	5g					
Ingress protection rating	IP67 and IP69K					
Standards		EN 60947-5-1	; IEC/EN 60947-1; I	UL File E57648		

^{*}Operator only. Purchase contact blocks separately.





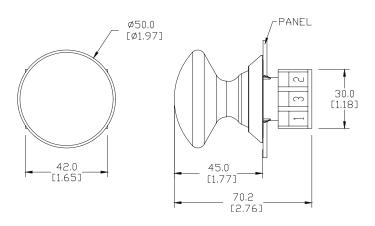


NDP50SW

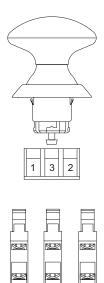


NDP50WS

Dimensions mm [in]



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.



tPIL-58 **Pilot Devices** 1 - 8 0 0 - 6 3 3 - 0 4 0 5

S SCHMERSAL IP69K Emergency Stop **Pushbuttons**



NDRZ50RT



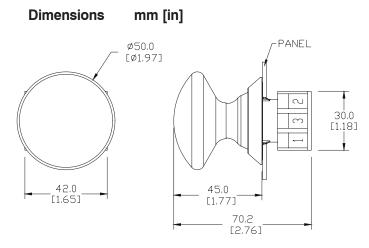
NDRZ50RT-2905-1

IP6	9K Emergency Stop Pushbu	ittons*		
Part Number	NDRZ50RT	NDRZ50RT-2905-1		
Front ring color	Silver	Yellow		
Price	\$25.00	\$25.00		
Description	IP69K emergency pushbut push to latch and pull to ur	tons with mounting flange, nlatch, front plate mounting		
Mounting	22.3 mm	[0.88 in]		
Actuating stroke	5n	nm		
Dome material	ABS			
Front ring material	ABS, chromium-plated			
Front panel thickness	1.5 to 6 mm			
Weight	50g [1.76 oz]			
Mounting screws tightening torque	0.6 N·m [0.44 lb·ft]		
Ambient temperature	-25°C to +80°C [-13°F to +176°F]		
Shock resistance	30g /	18ms		
Ingress protection rating	IP67 an	d IP69K		
Mechanical life	100,000 operations			
Standards	EN 60947-5-1; IEC/EN 6	60947-1; UL File E57648		

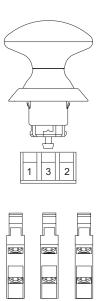
^{*}Operator only. Purchase contact blocks separately.







Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.



S SCHMERSAL IP69K Indicator Lights



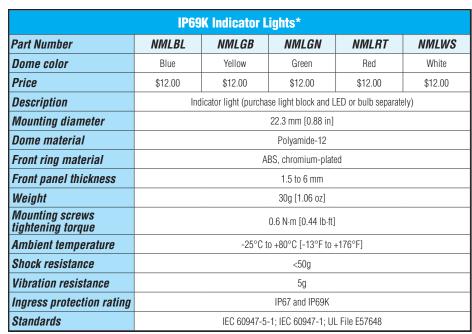
NMLBL



NMLGB



NMLGN



^{*}Operator only. Purchase contact and light blocks separately.











Ø44.5 [ø1.75] 30.0 [1.18] 8.9 42.0 [0.35][1.65] 34.1 [1,34]

Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

tPIL-60 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

S SCHMERSAL Non-Illuminated 22mm IP69k **Plastic Selector Switches**





Non-Illuminated 22mm Selector Switches*						
Part Number	Price	Color	Operation			
NWS21GR	\$19.00	Black	2-position maintained	70°		
NWS21WS	\$19.00	White	z-position maintained	(O)		
NWT21	\$19.00	Black	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
NWT21WS	\$19.00	White	2-position, spring return from right			
NWS32	\$25.00	Black	3-position maintained	550-1-550		
NWS32WS	\$25.00	White	3-position maintained			
NWT32	\$25.00	Black	3-position,			
NWT32WS	\$25.00	White	spring return to center from right or left			
NWTS32	\$25.00	Black	3-position,			
NWTS32WS	\$25.00	White	spring return to center from right, maintained left			
NWTS321	\$25.00	Black	3-position, spring return to center from left, maintained right			
NWTS321WS	\$25.00	White				

^{*}Operator only. Purchase contact blocks separately.

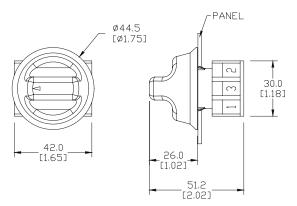




Selector Switches Specifications				
Toggle material	ABS			
Front ring material	ABS, chrome-plated			
Front panel thickness	1.5 to 6 mm			
Mechanical operations	300,000			
Mounting screws tightening torque	0.6 N·m [0.44 lb·ft]			
Ambient temperature	0°C to +80°C [32°F to +176°F]			
Shock resistance	<50g			
Vibration resistance	5g			
Ingress protection rating	IP67 and IP69K			
Standards	IEC 60947-5-1; IEC 60947-1; UL File E57648			

Dimensions





Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

S SCHMERSAL

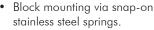
Contact Blocks and Light Terminal Blocks Overview

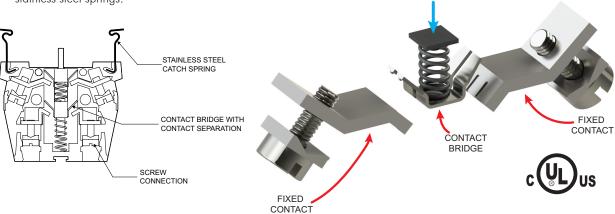
DEPRESS

OPERATOR

Features

- A self-cleaning contact bridge system, known as Elan four-way system, which is particularly suitable for low voltage applications and has a lower switching capacity of 5VDC/3.2 mA (max. 400VAC/8A). It is designed in the form of a bent twin contact bridge, with parallel and also diagonal operation.
 - with IEC 60 947-1 (VDE 0660, Part 100) with a complete function and sequence number (refer also to product ranges). The function number identifies the NC and NO contact. The sequence number specifies the number and the order of the contacts on the complete switching device.
- NC contacts with positive opening in compliance with IEC EN 60 947-5-1 (VDE 0660 Part 200).
- Galvanically isolated contact circuits in 2-pole blocks.
- High resistance to shock and vibrations.





• Complete terminal designations

visible at a glance in compliance

Technical Specifications							
	Contact Blocks	Light Blocks (ELE)	Light Blocks (ELDE)				
General description	Contact element	Light terminal block w/Ba9S base	Light terminal block w/LED				
Enclosure material	Plastic, glass fiber reinforced	Plastic, glass fiber reinforced	Plastic, glass fiber reinforced				
Contact material	Fine-silver, phosphor bronze or brass carrier	_	-				
Utilization category	AC-15: 230 V / 8 A DC-13: 24 V / 5 A	-	-				
Suitability for low voltages	≥ 5VDC / 3.2 mA	_	-				
Rated insulation voltage U	400V	440V	440V				
Rated impulse withstand voltage U _{imp}	4kV	-	-				
Thermal test current Ithe	10A	_	-				
Max. fuse rating	10A gG D-fuse slow blow	10A gG T-slow blow	10A gG T-slow blow				
Wire size	0.5 mm ² to 2.5 mm ² (20 - 14 AWG)						
Tightening torque wire connection		Maximum 1 N·m (0.74 lb·ft)					
NEMA contact rating	A300 / P300	_	-				
Switching frequency	1200 s/h	_	_				
Switching capacity	5VDC / 3.2 mA (max 400VAC / 8A)	_	_				
Mechanical life	10,000,000 operation	_	-				
Resistance to shock	110 g/4ms to 30 g/18ms no bouncing	_	-				
Resistance to vibration	> 20 g/10ms to 200Hz	-					
Ambient temperature	-25°C to +80°C [-13°F to +176°F]						
Ingress protection rating	IP20 terminals / IP40 switching compartment	IP20 terminals	IP20 terminals				
Standards	IEC 6	0947-5-1; IEC 60947-1; UL File E57648					

tPIL-62 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

S SCHMERSAL Contact Blocks



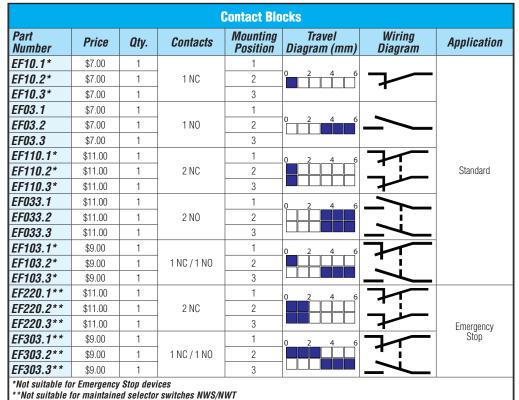
EF03.2



EF10.1



EF103.2

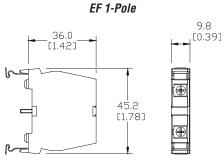


Travel Diagram Legend = contact closed = contact open Numbers indicate distance in mm



EF220.2

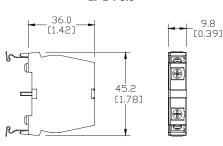




mm [in]

Dimensions

EF 2-Pole



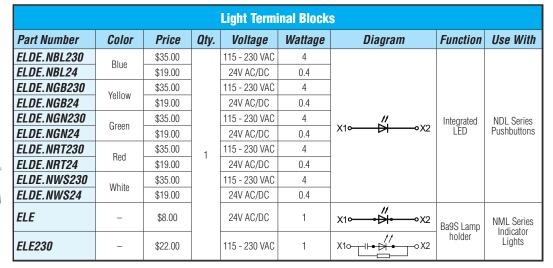
EF303.2

Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Light Terminal Blocks S SCHMERSAL



ELDE.Nxx230



ELDE.Nxx24



Ba9S Bulbs for ELE and ELE230 Light Terminal Blocks							
Part Number	Color	Qty	Price	Lamp Voltage	Current Consumption	Power Consumption	Lamp Durability
APX510-24R	Red		\$13.00				
APX510-24G	Green		\$13.00				
APX510-24Y	Yellow	2	\$13.00 24V AC/DC	24V AC/DC	12mA AC 11mA DC	0.8 W	30,000h
APX510-24S	Blue		\$50.00	-, -			
APX510-240	Orange		\$13.00				



APX510-24R



ELE230

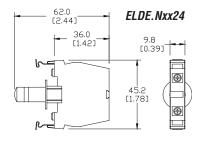
Replacement LED Lamps for ELE and ELE230 Light Terminal Blocks							
Part Number	Color	Qty	Price	Lamp Voltage	Current Consumption	Power Consumption	Lamp Durability
ECX1911-2	Red		\$15.50 \$19.50	14mA			
ECX1912-2	Green			13mA			
ECX1913-2	Yellow	2	\$15.50	15.50 24V AC/DC	13.3 mA	0.6 W	100,000h
ECX1914-2	Blue		\$21.00	7.0,00	13mA		
ECX1915-2	White		\$25.00		19mA		

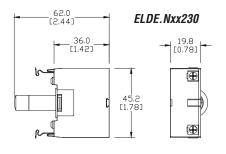


ECX1915-2

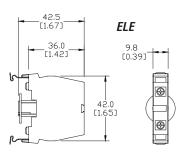
NOTE: ELE230 has transformer to step down to 24V

Dimensions mm [in]





42.5 [1.67] **ELE230** 19.8 [0.78] 36.0 [1.42] **(4)** 45.2 [1.78] **(**



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

tPIL-64 Pilot Devices

S SCHMERSAL Accessories



NB

	IP69K Accessories						
Part Number	Price	Description					
NB	\$9.00	Hole seal/blanking plug, silver, 44.5 mm diameter, ABS/chrome-plated, 1/ea					
NDP-70-ES	\$7.00	Legend plate, metallic, round, yellow field, yellow background, black engraved text, legend plate text "Emergency Stop". For use with 22mm pushbuttons. 1/ea					
NUE	\$5.00	Pilot device hole adapter, reduces from 30.5 mm to 22.3 mm. Adapter ring, seal and washer included. 1/ea					
EDT-25-5ST	\$6.00	Spare seals, 5/bag					
NZSO-V4A	\$3.00	Legend plate - blank, stainless steel, 1/ea					



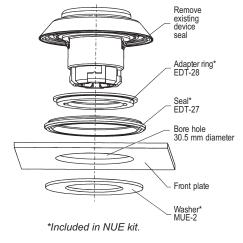


NDP-70-ES



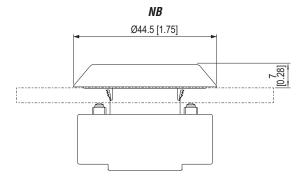
NZSO-V4A



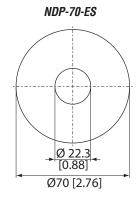


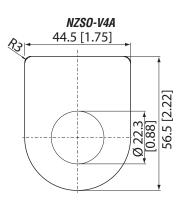
Dimensions

mm [in]



Front plate thickness 1.5 mm to max 6mm, mounting flange supplied





Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

E22 Series 22mm Pilot Devices Overview*

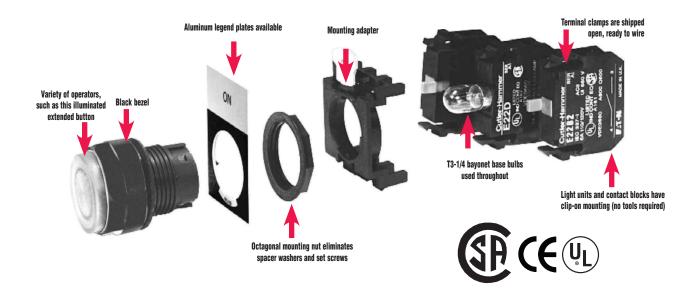
22mm non-metal operator and pilot devices

Cutler-Hammer's 22mm industrial pushbutton line offers a wide array of functional, smartly-styled illuminated and non-illuminated pushbuttons, selector switches, and more. We offer transformer, full voltage, resistor, or LED light units. The operators feature a matte black bezel. The space-saving design and modular construction of the E22 line makes on-the-job installation fast and easy.

Complete assembled devices

The devices listed are shipped complete with operator, contact blocks and light (if applicable).





tPIL-66 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

^{*} Cutler-Hammer products are available for sale to North America locations only.

FAT•N

E22 Series Selection Guide

Cutler-Hammer



Indicating lights

Complete assembly includes:

- Illuminated operator, including optically enhanced lens
- Incandescent or LED light units (Order legend plate separately)



Selector switches

Complete assembly includes:

- · Selector operator
- Contact block(s) one or two normally open or normally closed
- Black bezel (Order legend plate separately)



Pushbuttons

Complete assembly includes:

- · Flush or extended momentary operators
- One normally open or normally closed contact
- Push-push models also available
- 120VAC light (if illuminated) (Order legend plate separately)



40 and 50mm mushroom pushbuttons

- · Push-Pull trigger action
- Illuminated or non-illuminated (Order legend plate separately)



Double headed pushbutton

On/Off control



Control station

· For Start/Stop applications



Illuminated pushbuttons

- Red, green or amber
- 120VAC or 24 VAC/DC
- Order legend plate separately



Push-to-test indicating lights

- Red, green or amber
- Order legend plate separately
 - Red, green or amber
 - Order legend plate separately



Tools and Accessories

- · Legend plates
- · Hole plugs
- Bulb tools
- · Replacement bulbs



Components

E22 Series Technical Specifications

			- /////	
ınaı	ress Pro	वस्त्रभग	on (IP)	Kenino

(IP65, IP66 ratings to IEC 529) UL Listed (NEMA) Types 1, 2, 3, 3R, 4, 4X, 12, and 13 when mounted in an enclosure rated for those same applications. See pages 30-9 and 30-10 for descriptions.

Electrical Specifications

Electrical Rating UL508; UL File E131568. CSA certified class 3211 03, LR 68551. NEMA ICSS-2000: A600, Q600 (refer to page 68). IEC 60947-5-1: AC15, DC13.

Maximum Frequency of Operation

	22mm Pushbuttons	6,000 operations/hour IEC 60947-5-1: AC15, DC13.			
Key and Lever Selector Switches 3,000 operations/hour		3,000 operations/hour			
	Twist-to-Release Devices	1,200 operations/hour			
	Push-Pull Operators	3,000 operations/hour			

Mechanical Life

Pushbutton	5 million operations
Selector Switches	500,000 operations
Push-Pull and Twist-to- Release	300,000 operations
Contact Block	3 million operations

Environmental Specifications

O " T '	
Operating Temperature	Maximum 60°C at 95% RH, -20° to 60°C (-14° to 140°F), altitude 2000 meters
Storage Temperature	Maximum 60°C at 95% RH, -40° to 80°C (-40° to 176°F)

Vibration

Vibration	5G/0.7 mm peak-to-peak 10 sweeps, 10-500 Hz
Shock	18G, 18ms
Bump	25G, 6ms for 1,000 cycles

Construction

Materials

Housing, Bezel, Mounting RIngs	Glass-filled nylon							
Internal Seal	Nitrate rubber							
Panel Gasket	Nitrate rubber							
Illuminated Lenses	Polycarbonate							
Buttons	Polyester or polycarbonate							
Springs	Stainless steel							
Contacts	Silver							
Terminal Screws/Terminals	Brass							
	Panel Thickness - mm (inches)							
Nominal	6.8 (0.2) ¹							
Aluminum Legend Plates	lates 1.3 (0.05)							
Large Yellow Round Legend Plates	1.0 (0.04)							

'Installation of certain accessories will increase the total (overall) panel thickness by the amount shown. The total panel thickness with all accessories installed cannot exceed the maximum allowable nominal dimensions of 6.8 mm (0.27 in.).

Wire Specifications					
Minimum/Maximum	18AWG (0.75 mm ²) / 12AWG (2.5 mm ²)				
Tightening Torque	7 lb-in				

Electrical life

- AC15 durability: 120V, 6A 1 X 10⁶ operations
- DC13 durability: 24V, 8A 0.15 X 10⁶ operations 660V, .1A 0.5 X 10⁶

Logic-level operation

5 VDC, 1 mA (minimum recommended)

Contacts feature a pointed surface called "Reliability Nib." The projection penetrates through any oxidation providing unmatched low-level operation without using exotic metals or sealed contacts.

Standards and approvals

- UL listed UL 508 electrical/environmental;
- UL 486E terminal secureness, File E131568
- CSA Certified CSA 22.2 #14
- NEMA ICS-1, ICS-2
- IEC 144, 337, 529, 947
- IP65 when mounted in enclosure
- · Lloyds No. 4 and 5
- M.T.T.A.
- CE

IEC utilization categories & ratings

AC15

(Control of AC electromagnetic loads)

- 24 volts AC at 10 amps
- 130 volts AC at 6.5 amps

DC13

(Control of DC electromagnetic loads)

- 24 volts DC at 1.5 amps
- 110 volts DC at .5 amps

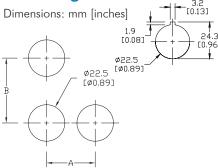
tPIL-68 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



Cutler-Hammer

EATON E22 Mounting / NEMA **Aux Contact Ratings**

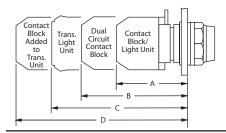
Mounting



Minimum Spacing — mm [inches] Dimensions Size/Type of Operator All types up to 30 (1.18) dia. including knob and key operated selector switches except those listed below 30 (1.18) 50 (1.97) Three-way adapter 50 (1.97) dia. operators 55 (2.16) 55 (2.16) 75 (2.95) Large yellow round legend plate - 70 (2.76) diameter 50 (1.97)

Back-of-panel extensions

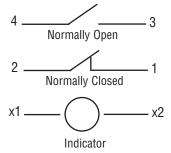
Note: This view is to show dimensions only. Contact blocks are not stackable.



Approximate Dimensions — mm [inches]							
A	В	С	D				
Single circuit block — full voltage and resistor units	Dual circuit contact block	Transformer light unit	Transformer light unit and single circuit contact block				
Pushbuttons (All Types and Push-Pull)							
51 [2.0] 66 (2.6)		74 (2.91)	94 (3.7)				
Key and Knob Selector Switches							
57 [2.2]	72 (2.83)	80 (3.15)	99 (3.9)				

Control Circuit Contact Electrical Ratings and Wiring

Typical Wiring



NEMA Mechanical Switching Ratings and Test Values for DC Control Circuit Contacts								
Contact Rating Desig- nation	Thermal Continuous Test Current (A)	Maximum I						
		125 Volts	250 Volts	301 to 600 Volts	Volt amperes			
P300	5.0	1.1	0.55		138			
P600	5.0	1.1	0.55	0.20	138			
Q300	2.5	0.55	0.27		69			
Q600	2.5	0.55	0.27	0.10	69			
R300	1.0	0.22	0.11		28			

This chart is provided as a guideline only, and the ratings and values are not guaranteed to be accurate. It is the users' responsibility to properly size their control circuit devices. The chart values are from NEMA Standard ICS 5-2000, Table 1-4-2.

NEMA Mechanical Switching Ratings and Test Values for AC Control Circuit Contacts											
Contact Co.	Thermal	Maximum AC Current, 50/60Hz (A)								Valt amnaras	
	Continuous Test Current	120	120 Volts 240 Volts		Volts	480 Volts		600 Volts		Volt amperes	
	(A)	Make	Break	Make	Break	Make	Break	Make	Break	Make	Break
A300	10	60	6.00	30	3.00					7200	720
A600	10	60	6.00	30	3.00	15	1.50	12	1.20	7200	720
B300	5	30	3.00	15	1.50					3600	360
B600	5	30	3.00	15	1.50	7.5	0.75	6	0.60	3600	360
C600	2.5	15	1.5	7.5	0.75	3.75	0.375	3.00	0.30	1800	180

This chart is provided as a guideline only, and the ratings and values are not guaranteed to be accurate. It is the users' responsibility to properly size their control circuit devices. The chart values are from NEMA Standard ICS 5-2000, Table 1-4-1.



E22 Non-Illuminated Pushbuttons

Cutler-Hammer

Flush pushbuttons

Approximate dimensions in mm (in). See dimensions for "back-of-panel extensions" at the beginning of the E22 series section.



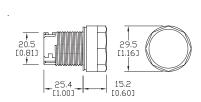
		Non-illuminated Pushbuttons	
Flush Bu	ıtton with Bez	el	Price
Black	E22PB1A	Momentary pushbutton, black bezel, flush black button with one N.O. contact	\$17.00
Green	E22PB3A	Momentary pushbutton, black bezel, flush green button with one N.O. contact	\$17.00
Push - P	ush Flush But	tton, Operator Only	
Black	E22PPB1	Push to open, push to close, flush, operator only	\$8.50
White	E22PPB5	Push to open, push to close, flush, operator only	\$8.50
Extende	d Button		
Red	E22EB2B	Momentary pushbutton, black bezel, extended red button with one N.C. contact	\$16.50
Control 3	Station - One	Extended Button, One Flush Button	
Green-Red	E22ASB204	Control station: Flush, Momentary , green button (START) with one N.O. contact; Extended, Momentary , red button (STOP) with one N.C. contact Dimensions: mm(inches) H x W x D 120(4.72) x 80(3.15) x 60(2.36)	\$86.00
See specif	fications and mou	unting data at the beginning of this E22 series section.	

Dimensions: mm [inches]



Push-Push flush pushbuttons

Dimensions: mm [inches]

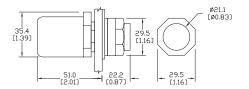


Extended pushbuttons

Approximate dimensions in mm (in). See dimensions for "back-of-panel extensions" at the beginning of the E22 series section.

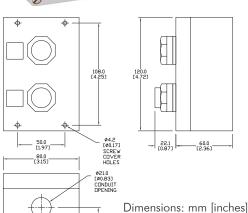


Dimensions: mm [inches]



Control station





Note: Contact blocks sold separately, see E22 accessories section.

tPIL-70 Pilot Devices



E22 Illuminated Pushbuttons

Cutler-Hammer

Illuminated pushbuttons



Note: Bulb removal tool available. See replacement bulbs on the accessories page.

Illuminated doubleheaded pushbutton

Illuminated Pushbuttons 24V AC/DC Full Voltage Price Momentary illuminated pushbutton, black bezel, extended red button with one N.C. contact, 24V full voltage light unit E22TB2X4B \$48.00 Momentary illuminated pushbutton, black bezel, extended green button with E22TB3X4A \$47.00 Green one N.O. contact 24V full voltage light unit Momentary illuminated pushbutton, black bezel, extended amber button with Amber E22TB9X4A \$47.00 one N.O. contact, 24V full voltage light unit 120V AC Resistor * Momentary illuminated pushbutton, black bezel, extended red button with one N.C. contact, 120V resistor light unit E22TB2X10B \$54.00 Momentary illuminated pushbutton, black bezel, extended green button with one N.O. contact, 120V resistor light unit E22TB3X10A Green \$54.00 Momentary Illuminated pushbutton, black bezel, extended amber button with E22TB9X10A Amber \$51.50 one N.O. contact, 120V resistor light unit See specifications and mounting data at the beginning of this E22 series section.

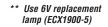
* Use 60V replacement lamp (W1226) for 120 VAC resistor models

Dimensions: mm [inches]

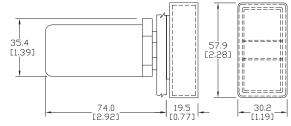
See dimensions for "back-of-panel extensions" at the beginning of this section.



	Illuminated Pushbutton					
Double-f	neaded Pushbutton	**	Price			
Green-Red	E22DB1B20X11C	Momentary illuminated double-headed pushbutton with clear lens, O and I legend markings, 120V transformer light unit, one N.O. and one N.C. contact	\$91.50			
See specif	See specifications and mounting data at the beginning of this section.					
Note: This	Note: This IP65 or UL (NEMA) Type 3, 3R, 4, 4X, 12, 13 pushbutton includes a protective clear silicone boot.					





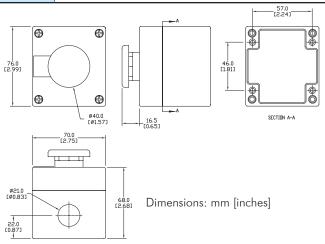


	Mushroom Pushbutton Station				
Emerger	Emergency Stop Station F				
Red/Yellow	E22ASB106	Latch in, twist-to-release 40mm red mushroom pushbutton, black bezel, with one N.C. contact.	\$104.50		



Mushroom

pushbutton station



FAT•N

Cutler-Hammer

E22 Emergency Stop Mushroom Pushbuttons

The European Machinery Safety Directive EN 418 requires all emergency OFF devices to be self-latching types and to have positive (direct) opening operation. Devices have to be manually reset. EN 418 states that actuators shall be mushroom head type and colored RED. The background immediately around the device actuator should be colored YELLOW (see the E22 accessories in this section to order legend plate part number E22VA8 or guard part number E22MGTA).



E22LTA2QB Emergency Stop pushbutton, in conjunction with direct-opening action contact blocks and either a yellow nameplate or yellow guard, is fully compliant with this safety directive, and is third-party certified by DEMKO.

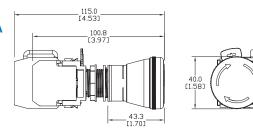


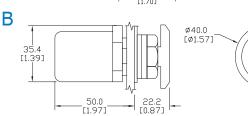
Note: E22MGTA fits E22LTA2QB.

It is not recommended for use with devices that are not EN-418 compliant .

ı	Non-illuminated Mushroom Pushbuttons (NOT CE EN 418 Compliant)				
(E) Red	E22JPB2B	Momentary 50 mm red mushroom pushbutton, black bezel, with one N.C. contact	\$28.50		
(F) Red	E22LB2B	Momentary 40 mm red mushroom pushbutton, black bezel, with one N.C. contact	\$27.00		
(G) Red	E22LLB2B	Twist release Maintained 40mm red mushroom pushbutton, black bezel, with one N.C. contact	\$29.50		
See spe	See specifications and mounting data at the beginning of this E22 series section.				

Dimensions A, B Dimensions: mm [inches]



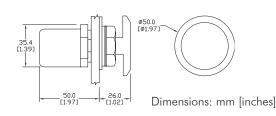


A E

Dimensions C, D, E



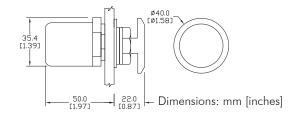




Dimensions F, G







tPIL-72 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



E22 Monoblock Indicating Lights

Cutler-Hamme

041/	10/D0 F! !!	altono lucandoscent	Duis
24V F	IC/DC FUII V	pltage Incandescent	Price
Red	E22HV2X4	Monoblock indicating light, red optically enhanced lens, 24V full voltage incandescent	\$20.00
Green	E22HV3X4	Monoblock indicating light, green optically enhanced lens, 24V full voltage incandescent	\$20.00
Amber	E22HV9X4	Monoblock indicating light, amber optically enhanced lens, 24V full voltage incandescent	\$20.00
120V	AC Full Volta	age Incandescent	
Red	E22HV2X8	Monoblock indicating light, red optically enhanced lens, 120V full voltage incandescent	\$20.00
Green	E22HV3X8	Monoblock indicating light, green optically enhanced lens, 120V full voltage incandescent	\$20.00
Amber	E22HV9X8	Monoblock indicating light, amber optically enhanced lens, 120V full voltage incandescent	\$20.00
24V A	C/DC Full Vo	oltage LED*	
Red	E22HL2X4	Monoblock indicating light, red optically enhanced lens, 24V full voltage LED	\$25.00
Green	E22HL3X4	Monoblock indicating light, green optically enhanced lens, 24V full voltage LED	\$25.00
Amber	E22HL9X4	Monoblock indicating light, amber optically enhanced lens, 24V full voltage LED	\$25.00
120V	AC Full Volta	age LED*	
Red	E22HL2X8	Monoblock indicating light, red optically enhanced lens, 120V full voltage LED	\$25.00
Green	E22HL3X8	Monoblock indicating light, green optically enhanced lens, 120V full voltage LED	\$25.00
Amber	E22HL9X8	Monoblock indicating light, amber optically Enhanced lens, 120V full voltage LED	\$25.00
120V	AC Transfori	mer Incandescent**	
Red	E22H2X11	Monoblock Indicating light, red optically enhanced lens, 120V transformer incandescent	\$51.50
Green	E22H3X11	Monoblock indicating light, green optically enhanced lens, 120V transformer incandescent	\$51.50
Amber	E22H9X11	Monoblock indicating light, amber optically enhanced lens, 120V transformer incandescent	\$51.50



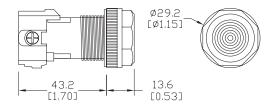
Note: * Cutler-Hammer 22mm LED indicators feature an LED cluster module. The LED clusters are permanently installed and are non-replaceable.

See the E22 accessories in this section for replacement lamp information.

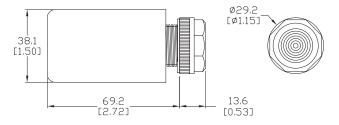
Dimensions

Dimensions: mm [inches]

E22HVxxx and E22HLxxx (Full voltage)



E22Hxxx (Transformer)



^{**}Use 6V replacement lamp (ECX1900-5) for 120VAC transformer models.



E22 Lights and Selector Switches

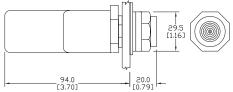
Cutler-Hammer

Push-to-test indicating lights



	Push-to-Test Indicating Lights					
These ar	re designed to illum	inate for bulb test when operator is pressed. Otherwise, they function as indicator lights.				
120V	120V AC Resistor * Price					
Amber	E22TB9X26	Push-to-Test indicating light, amber optically enhanced lens, 120V resistor incandescent	\$61.50			
120V	AC Transform	er **				
Red	E22TB2X27	Push-to-Test indicating light, red optically enhanced lens, 120V transformer incandescent	\$69.00			
Amber	E22TB9X27	Push-to-Test indicating light, amber optically enhanced lens, 120V transformer incandescent	No Match!			
See sp	See specifications and mounting data at the beginning of this E22 series section.					

Dimensions: mm [inches]



See dimensions for "back-of-panel extensions" at the beginning of this E22 series section.

Notes: Bulb removal tool available. See replacement bulbs on the E22 accessories page in this section.

- * Use 60V replacement lamp (W1226) for 120 VAC resistor models.
- ** Use 6V replacement lamp (ECX1900-5) for 120 VAC transformer models.

Selector switches

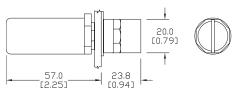


Two-position



Three-position

Dimensions: mm [inches]



Selector Switches				
Two-Position	Part Number	Description	Price	
Left Right	E22XB51A	Selector switch, black bezel ,two position, black knob, "OFF ON" with one N.O . contact block	\$23.00	
м — м Maintained Left Maintained Right	E22XB51C	Selector switch, black bezel, two-position, black knob, "ON ON" with one N.O. and one N.C . contact block	\$32.50	
Three-Position				
Left Center Right M M M Maintained Left Maintained Center Maintained Right	E22XBG1RR	Selector switch, black bezel, 3-position, black knob, "ON ON ON" with two contact blocks, each having one N.O. and one N.C. contact. (Contact part number E22B11)	\$50.00	
Three-Position Spring-Ret	turn to Center	Position	ı	
S M S Spring return Left Maintained Center Spring return Right Maintained Center Spring return Right Selector switch, black bezel, 3-position, black knob. "ON OFF ON", spring return to center, with two N.O. contact blocks \$36.50				
See specifications and mounting	g data at the begi	nning of this E22 series section.	I	

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E22 Key Switches and Accessories

Two-position key switches



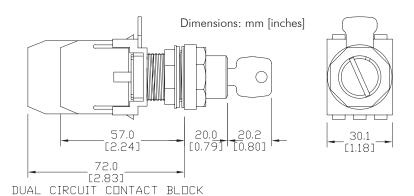
	Key Switches			
Two-position Key S	vitch	Price		
E22KB53A	Selector switch, black bezel, 2-position key, "OFF ON" with one N.O. contact block	\$59.50		
E22KB62A	Selector switch, black bezel, 2-position key, spring from right "OFF ON" with one N.O. contact block	\$59.50		
See specifications and mounting data at the beginning of this E22 series section.				

Notes:

All E22 series key switches are keyed alike. The key is not compatible with the metal 22mm key switches.

All E22 series key switches will hold only one single row of (2) contacts (non-stackable).

Key can be removed in all positions.



Spare keys available: part no. E22KS2

See dimensions for "back-of-panel extensions" at the beginning of this E22 series section.

Accessories — replacement contact blocks

Replacement Contact Blocks			
Contact Blocks	One block contains:	Price	
E22B1*	One N.C. contact (Direct Opening Action)	\$11.50	
E22B2	One N.O. contact	\$11.50	
E22B11*	One N.O., One N.C. contact (N.C. Direct Opening Action)	\$21.00	
E22B20	Two N.O. contacts	\$21.00	
E22CB1M*	Self-monitoring contact block (N.C. Direct Opening Action)	\$26.50	

Note: See contact electrical ratings on E22 series mounting and contact ratings page in this E22 series section.

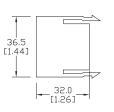
E22B11

*All N.C. contact blocks are EN 418 compliant when used with compliant operators.

E22B1 E22B2



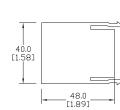




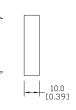




E22CB1M



E22B20



Dimensions: mm [inches]

mensions, min [mcnes]



E22 Accessories

Cutler-Hammer

Octagonal wrench





Hole plug





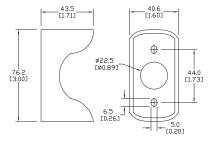


Dimensions: mm [inches]

Accessories Accessories				
Part number	Description	Price		
HT8WRENCH	Octagonal wrench for tightening back-of-panel mounting nut on all Cutler-Hammer operators.	\$10.50		
E22BHP	Hole plug for unused 22mm panel holes.	\$8.00		
HT8LAMPTOOL	Lamp extraction tool for removing lamps from switches, indicators and stacklights	\$8.00		
E22MGTA	22mm yellow guard for E22LTA2QB and E22LPB2B for emergency stop applications.	\$17.00		

Guard for E22 E-stop





Dimensions: mm [inches]

Replacement incandescent bulbs



	Replacement Incandescent Bulbs				
Part Number	Rating	Description	Quantity	Price	
ECX1900-5	6V, 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4.	pkg. of 5 bulbs	\$8.50	
ECX1902-5	24V@ 80mA	INITIIALUTE DAYOTTEL DASE 131/4.	pkg. of 5 bulbs	\$8.50	
ECX1904-5	130V@20mA	120V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4.	pkg. of 5 bulbs	\$17.50	
W1121	120V@20mA	Replacement bulb for Cutler-Hammer E22 full voltage indi- cators and switches. Does not replace the LED monoblock indicators.	pkg. of 4 bulbs	\$21.50	
W1226	60V@20mA	Replacement bulb for Cutler-Hammer E22 resistor indicators, switches and pushbuttons. Does not replace the LED monoblock indicators.	pkg. of 4bulbs	\$21.50	
W1819	24V@20mA	Replacement bulb for Cutler-Hammer E22 indicators and pushbuttons. Does not rbulbeplace the LED monoblock indicators.	pkg. of 4bulbs	\$21.50	

Replacement LED lamps



Replacement LED Lamps									
Part Number	Color	Rating	Description	Quantity	Price				
ECX1911-2	Red				\$15.50				
ECX1912-2	Green				\$19.50				
ECX1913-2	Yellow	24V@26mA	LED replacement lamp for miniature bayonet bases	pkg. of 2 LED bulbs	\$15.50				
ECX1914-2	Blue		Works with 22mm switches		\$21.00				
ECX1915-2	White		and indicators, but illumi- nation will not be as even		\$25.00				
ECX1921-2	Red		when used with the ECX 22mm indicators		\$15.50				
ECX1922-2	Green		Note: Will not replace		\$19.50				
ECX1923-2	Yellow	120V@5mA	sealed Cutler-Hammer				\$15.50		
ECX1924-2	Blue				\$21.00				
ECX1925-2	White				\$25.00				

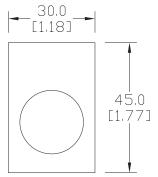
tPIL-76 **Pilot Devices** 1 - 8 0 0 - 6 3 3 - 0 4 0 5

E22 Legend Plates

Legend plates

Aluminum legend plates feature a plastisol backing to help prevent rotation of the operator.





Dimensions: mm [inches]

E22VA8



		Legend Plates	
Color	Part Number	Legend	Price
Black	E22NS11	"CLOSE"	\$4.50
Black	E22NS12	"DOWN"	\$4.50
Red	E22NS13	"EMERG. STOP"	\$4.50
Black	E22NS15	"FORWARD"	\$4.50
Black	E22NS19	"JOG"	\$4.50
Black	E22NS25	"ON"	\$4.50
Black	E22NS26	"OPEN"	\$4.50
Black	E22NS30	"REVERSE"	\$4.50
Black	E22NS31	"RUN"	\$4.50
Black	E22NS33	"START"	\$4.50
Red	E22NS34	"STOP"	\$4.50
Black	E22NS35	"UP"	\$4.50
Black	E22NS36	Blank plate	\$4.50
Red	E22NS37	Blank plate	\$4.50
Black	E22NS38	"FOR-REV"	\$4.50
Black	E22NS39	"HAND-AUTO"	\$4.50
Black	E22NS41	"JOG-RUN"	\$4.50
Black	E22NS42	"OFF-ON"	\$4.50
Black	E22NS43	"OPEN-CLOSE"	\$4.50
Black	E22NS48	"UP-DOWN"	\$4.50
Black	E22NS50	"FOR-OFF-REV"	\$4.50
Black	E22NS51	"HAND-OFF-AUTO"	\$4.50
Black	E22NS80	"POWER ON"	\$4.50
Black	E22NS81	"MOTOR RUN"	\$4.50
Black	E22NS82	"MOTOR STOP"	\$4.50
Black	E22NL36	Jumbo alum. blank plate (1.57 in wide x 1.85 in tall)	\$4.50
Red	E22NL37	Jumbo alum. blank plate (1.57 in wide x 1.85 in tall)	\$4.50
Red /black	E22NSP77	Plastic blank plate; red on one side, black on other side; either side can have letters engraved down into white plastic	\$4.50
Yellow	E22VA8	"EMERGENCY STOP" oversize yellow legend plate, 2.76" (70mm), printed	\$7.00

NOTE: Legend plates also work with the GCX/ECX series 22mm metal switches. The removal of the locator tab on the legend plate is required. This is easily accomplished with a round file or small grinder.

	Pushbu	itton, Indicator Light, and Selector Swi	itch Cross Reference	
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens
Non-Illuminated F	Pushbuttons			
E22PB1A	800EPF2 800E3LX10	ZA2BA2 ZA2BZ101	P9XPNNG10N0	3SB1000-0AB01 3SB02-CBH 3SB1400-0B
	800EPF3 800E3LX10	ZA2BA3 ZA2BZ101	P9XPNVG10N0	3SB1000-0AE01 3SB02-CBH 3SB1400-0B
E22EB2B	800EPE4 800E3LX01	ZA2BL4 ZA2BZ102	P9XPNRS20N0	3SB1000-0LC01 3SB02-CBH 3SB1400-0B
E22ASB204	ENCLSR: 800E-2P 800EP-F3 800EP-2LX10 800EP-E4 800E-2LX01 800E-34BE208 800E-34R212	XALB211 Both flush - stop is not extended	P9CPNRSN20N0 P9CPNVGN10NO P9EPB02 P9AEPN201 P9AEPN202	3SB02-S21
Illuminated Pushl	buttons			
E22TB2X4B	800EPLE4 800E3DL3 800E3X01	ZA2BW14 ZA2BW06224	P9XPLRSDN12NADI	3SB1001-0LC01 3SB02-CBH 3SB1400-0C 3SB1400-2H
E22TB3X4A	800EPLE3 800E3DL3 800E3X10	ZA2B213 AZ2B206124	P9XPLVSDN12NADI	3SB1001-0LE01 3SB02-CBH 3SB1400-0B 3SB1440-2H
E22TB9X4A	800EPLE5 800E3DL3 800E3X10	ZA2BW15 ZA2BW06124	P9XPLASDN12NADI	3SB1001-0LD01 3SB02-CBH 3SB1400-0B 3SB1400-2H
E22TB2X10B	800EPLE4 800E2RL5 800E3X01	ZA2BW14 ZA2BW062120	P9XPLRSB P9PRNVJ P9PDNVD	3SB1001-0LC01 3SB02-CBH 3SB1400-0C
E22TB3X10A	800EPLE3 800E2RL5 800E3X10	ZA2BW13 ZA2BW061120	P9XPLVSD P9PRNVJ P9PDNVD	3SB02-UPR1P 3SB1910-0DE 3SB1400-0B
E22TB9X10A	800DPLE5 800E2RL5 800E3X10	ZA2BW15 ZA2B2061120	P9XPLASD P9PRNVJ P9PDNVD	3SB02-UPR1P 3SB1910-0DD 3SB1400-0B

tPIL-78 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

	Pushbu	tton, Indicator Light, and Selector Switc	ch Cross Reference (co	ont'd)
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens
Non-Illuminated	Mushroom Pushl	buttons		
E22LB2B	800EPM4 800E3LX01	ZA2BC4 ZA2BZ102	P9XEM4RNN20N0	3SB1000-1RC01 3SB02-CBH 3SB1400-0C
E22LLB2B	800EPMT4 800E3LX01	ZA2BS54 ZA2BZ102	P9XER4RAN20N0	3SB1000-1AC01 3SB02-CBH 3SB1400-0C
E22JPB2B	800EPMJ4 800E3LX01	ZA2BR4 ZA2BZ102	P9XEMGRN (60mm) P9B01VN	3SB1000-1VC01 (70MM) 3SB1400-0C
E22JLB2N8B	800EPMJP28 800E3LX01	NO EQUAL	NO EQUAL	NO EQUAL
E22JPLB2B	800EPMJP24 800E3LX01	ZA2BX4 ZA2BZ102	P9XET4RN1200	3SB1000-0KC01 (40mm) 3SB1400-0C
E22ASB106	800EP-MT4 800E-2LX01 800E-1P 800E-15YE112	XALJ174 No Nameplate +Yellow Cover	P9XER4RAN20N0 P9EPB01 P9AEPNEN	3SB02-S13 No Nameplate + Yellow Cover
Indicating Lights				
		Use ZA2 or ZB2 for these indicating lights		
E22HV2X4	800EPPL4 800E3DL3	ZA2BV04 ZA2BV624	P9XURRD0 BA9S24	N/A
E22HV3X4	800EPPL3 800E3DL3	ZA2BV03 ZA2BV624	P9XUGRD0 BA9S24	N/A
E22HV9X4	800EPPL5 800E3DL3	ZA2BV05 ZA2BV624	P9XUARD0 BA9S24	N/A
E22HV2X8	800EPPL4 800E3DL5	ZA2BV04 ZA2BV6120	B9XURRD0 BA9S130	N/A
E22HV3X8	800EPPL3 800E3DL5	ZA2BV03 ZA2BV6120	B9XUGRD0 BA9S130	N/A
E22HV9X8	800EPPL5 800E3DL5	ZA2BV05 ZA2BV6120	B9XUARD0 BA9S130	N/A
E22HL2X4	800EPPL4 800E3DL3R	ZA2BV043 ZA2BV624 DL1CJUS0244	B9XURRD0 080BA9S24LR	N/A
E22HL3X4	800EPPL3 800E3DL3G	ZA2BV033 ZA2BV624 DL1CJUS0243	B9XUGRD0 080BA9S24LG	N/A
E22HL9X4	800EPPL5 800E3DL3A	ZA2BV053 ZA2BV624 DL1CJUS0245	B9XUARD0 080BA9S24LA	N/A
E22HL2X8	800EPPL4 800E3DL5R	ZA2BV043 ZA2BV620 DL1CJUS1204	B9XURRD0 080BA9S120LR	N/A
E22HL3X8	800EPPL3 800E3DL5G	ZA2BV033 ZA2BV6120 DL1CJUS1203	B9XUGRD0 080BA9S120LG	N/A
E22HL9X8	800EPPL5 800E3DL5A	ZA2BV053 ZA2BV6120 DL1CJUS1205	B9XUARD0 080BA9S120LA	N/A

Pilot Devices tPIL-79

	Pushbutton	, Indicator Light, and Selector Switch	Cross Reference (co	ont'd)
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens
Indicating Lights	(cont'd)			
		Use ZA2 or ZB2 for these indicating light	ts	
E22H2X11	800EPPL4 800E3TL5	ZA2BV04 ZA2BV3	P9XLRGJI	3SB1001-6CC06 3SB02-CBH 3SB1400-5M
E22H3X11	800EPPL3 800E3TL5	ZA2BV03 ZA2BVB3	P9XLGGJI	3SB1001-6CE06 3SB02-CBH 3SB1400-5M
E22H9X1	800EPPL5 800E3TL5	ZA2BV05 ZA2BV3	P9XLAGJI	3SB1001-6CD06 3SB02-CBH 3SB1400-5M
E22TB9X26	800DPLE5 800ETLT5X11	ZA2B215 ZA2BW065120	P9XPLASDN30NKJI	3SB02-UPR1P 3SB1910-0DD 3SB1400-0B
E22TB2X27	800EPLE4 800E3TLT5X11	ZA2BW14 ZA2BW035	P9XPLRSDN30NHJI	3SB100-0QC01 3SB02-CBH 3SB1400-5M
E22TB9X27	800EPLE5 800E3TLT5X11	ZA2BW15 ZA2BW035	P9XPLASDN30NHJI	3SB1001-0QA01 3SB02-CBH 3SB1400-5M
Selector Switches	5			
E22XB51A	800EPSM22 800E3LX10	ZA2BD2 ZA2BZ101	P9XSMD0N P9B10VN	3SB02-2MKBP 3SB1400-0B
E22XB51C	800EPSM22 800E3LX11	ZA2BD2 ZA2BZ105	P9XSMD0N P9B11VN	3SB02-2MKBP 3SB1400-0C
E22XBG1RR	800EPSM32 800E3LX20 800E3LX02	ZA2BD3 ZA2BZ103 ZA2BZ104	P9XSMZ0N P9B11VN	3SB02-3MKBP 3SB1400-0G 3SB1400-0H
E22KB53A	800EPKM2Z1 800E3LX11	ZA2BG4 ZA2BZ101	P9XSCD0K95 P9B10VN	3XB02-2MHC1P 3SB1400-0B
E22KB62A	800EPKR2Z1 800E3LX10	ZA2BG6 ZA2BZ101	P9XSCD0K95 P9B10VN	3SB02-2LHC1P 3SB1400-0B
E22KBG7RR	800EPKM3R1 800E3 800E3LX11	ZA2BG0 ZA2BZ103 ZA2BZ104	P9XSCZ0T95 (2) P9B11VN	3SB02-3MHC6P 3SB1400-0G 3SB1440-0H
E22KBG7D	800EPKM3R1 800E3LX10	ZA2BG0 ZA2BZ103	P9XSCU0K95	3SB02-3MHC2P 3SB1400-0G

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Pushbutton, Indicator Light, and Selector Switch Cross Reference (cont'd)								
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens				
Accessories								
E22B1	800E3X01	ZA2BZ102	P9B01VN	3SB1400-0C				
E22B2	800E3X10	ZA2BZ101	P9B10VN	3SB1400-0B				
E22NS33	800E13BE208	ZA2BZ32303	P9ACP2N202	P22MPS03				
E22NS34	800E13BE212	ZA2BZ32304	P9ACP2N201	P22MPS04				
E22NS19	800E13BE138	ZA2BZ32101 + custom text	P9ACP2N210	P22MPS28				
E22NS11	800E13BE107	ZA2BZ32314	P9ACP2N205	P22MPS19				
E22NS12	800E13BE110	ZA2BZ32308	P9ACP2N203	P22MPS17				
E22NS50	800E13BE261	ZA2BZ32101+ custom text	P9ACP2N239	P22MPS81				
E22NS15	800E13BE120	ZA2BZ32305	P9ACP2N214	P22MPS07				
E22NS38	800E1BE253	ZA2BZ32101+ custom text	P9ACP2N231	P22MPS57				
E22NS39	800E13BE127	ZA2BZ32101 + custom text	P9ACP2N243	P22MPS52				
E22NS51	800E13BE128	ZA2BZ32387	P9ACP2N261	P22MPS80				
E22NS41	800E13BE142	ZA2BZ32101 + custom text	P9ACP2N245	P22MPS65				
E22NS81	800E13B	ZA2BZ32101 + custom text	P9ACP2NFEN	P22MPS38				
E22NS82	800E13B	ZA2BZ32101 + custom text	P9ACP2NFEN	P22MPSBB + custom text				
E22NS25	800E13BE166	ZA2BZ32311	P9ACP2R212	P22MPS01				
E22NS26	800E13BE170	ZA2BZ32313	P9ACP2N206	P22MPS18				
E22NS43	800E13BE171	ZA2BZ32101 + custom text	P9ACP2N234	P22MPS60				
E22NS30	80013BE188	ZA2BZ32306	P9ACP2N215	P22MPS08				
E22NS31	800E13BE193	ZA2BZ32334	P9ACP2N211	P22MPS06				
E22NS35	800E13BE22	ZA2BZ32307	P9ACP2N204	P22MPS16				
E22NS48	80013BE224	ZA2BZ32101 + custom text	P9ACP2N256	P22MPS61				
E22NS13	800E13BE112	ZA2BZ32330	P9ACP2R229	P22MPS27				
E22VA8	800E16Y	ZB2BY9303	080XTG802	3SX1348				

tPIL-81 Pilot Devices



NEMA Ruggedness at IEC Prices

Cutler-Hammer

You asked for them

We took advantage of the experience of Cutler-Hammer engineering to take existing product technology and make it better. From the corrosion-resistant anodized mounting rings to the optically-enhanced lenses on our indicators, the HT800 30mm line finishes out your control panel in style. Extended lamps and LEDs provide better side illumination in our indicators and illuminated pushbuttons. Watertight double V gaskets stand between the environment and your control system. Use them indoors or out. They're protected to NEMA 1, 2, 3, 3R, 4, 4X, 12, and 13.

30mm pushbuttons



Flush and

Extended

Available in green, black, and red



Illuminated (in seven colors)



30mm selector switches



(in knob or lever versions)

30mm indicating lights



(in seven colors)

30mm push-to-test indicators





* Cutler-Hammer products are available for sale to North America locations only.

*All prices are U.S. published prices. AutomationDirect's prices are from April 2014 Price List. Prices and specifications may vary by dealer and configuration. Allen-Bradley industrial control component prices from www.rockwellautomation.com/en/e-tools 2/28/2014. Prices may vary by dealer. Prices subject to change without notice.



\$52.50 (HT8HFYV7) \$106.70 (800T-Q10G)

Mushroom

tPIL-82 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



The HT800 family of 30.5 mm pushbutton devices includes momentary, illuminated and mushroom-head pushbuttons, selector switches, indicating lights and push-pull switches.

Features

- Anodized aluminum mounting rings
- Watertight double V-gasket seals
- Extended height bulbs
- Transparent housing contact blocks
- · Color-coded contact blocks
- Gold-plated contacts (on low voltage contact block)
- · Reliability ridge on movable contact
- Stackable screw-mounted contact blocks
- Contact blocks can be mounted in left/ right or top/bottom positions
- Standard N.C. contact opens before N.O. contact closes (break before make operation)
- Bright and long lasting LED indicating lights in six colors
- Field convertible maintained selector switches from two-position to three-position and vice versa
- Field selectable knob/lever mounting positions – at any 22.5° increment

Benefits

- · Corrosion resistant NEMA 4X finish
- Watertight and oil-tight NEMA 4, 13 ingress protection
- Increased side illumination of indicating lights and illuminated pushbuttons
- Easy visual inspection of contact conditions
- Easily identifiable N.O. (white) or N.C. black) contact blocks
- Gold-plated contacts suitable for logic level circuits
- Reliability ridge penetrates contamination buildup on stationary contacts
- Left/right or top/bottom mounted contact blocks allow correct positioning in retrofit applications
- All-purpose selector switches are convertible and can rotate in 22.5° increments to suit panel layouts

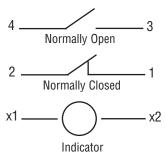
Standards and Certifications

- UL508, File No. E131568
- CSA C22.2 No. 14, File No. LR68551

Ingress Protection

• UL (NEMA) 1, 2, 3, 3R, 4, 4X, 12 and 13 when mounted in similarly rated enclosures

Typical Wiring



Cutler-Hammer

FAT-N HT800 30mm Pushbuttons Specifications

	HT800 — Specifications						
Mechanical Ratings	Mechanical Ratings						
Frequency of Operation							
Pushbuttons	6,000 Operations per hour						
Selector Switches	3,000 Operations per hour						
Push-Pull Operators	3,000 Operations per hour						
Mechanical Endurance/Life							
Pushbuttons	10 x 10 ⁶ Operations 6K Ops/Hr with 6 NO on left and 6 NC on right						
Selector Switches	250 x 10 ³ Operations 3K Ops/Hr with 2 NO on left and 2 NC on right						
Push-Pull Operators	250 x 10 ³ Operations 3K Ops/Hr with 6 NO on left and 6 NC on right						
Environmental Specifications							
Operating Temperature	10° to 140°F (-12° to 60°C)						
Storage Temperature	-40° to 176°F (-40° to 80°C)						
Altitude	6,562 ft. (2,000m)						
Humidity	95% RH @ 60°C						
Terminals							
Contact Blocks	#6-32 posi-drive saddle clamp type, 1 x 16 AWG to 2 x 14 AWG, 12 in-lbs max.						
Light Units	#6-32 posi-drive saddle clamp type, 1 x 22 AWG to 2 x 14 AWG, 7 in-lbs max.						

HT800 Standard Contact Blocks UL (NEMA) Rating									
Electrical Ratings Description/Function		Catalog Number	AC	DC					
Standard N ormally O pen contact	NO	HT8A	A600	P600					
Standard Normally Closed contact	NC	HT8B	A600	P600					
Normally Open Early Make Contact will make circuit before standard NO contact. DC ratings do not apply.	NOEM	нтвс	A600	_					
Normally Closed Late Break contact will open after standard NC contact. DC ratings do not apply.	NCLB	HT8D	A600	_					
Logic level, low voltage NO contact. Gold plated contacts.	NO	HT8E	5V 1mA (minii 28V 500mA (i	mum) maximum)					

UL (NEMA) A600 and P600 Ratings										
Description	Volts AC 50/60 Hz Vol				Volts	Its DC 1				
Description	120	240	480	600	125	250	600			
Make and Emerg. Interrupting Capacity (Amp)	60	30	15	12	1.1	0.55	0.2			
Normal Load Break (Amp)	6	3	1.5	1.2	1.1	0.55	0.2			
Thermal Current (Amp)	10	10	10	10	5	5	5			
Voltamperes	Voltamperes									
Make and Emerg. Interrupting Capacity	7200	7200	7200	7200	138 ²	138 ²	138 ²			
Normal Load Break	720	720	720	720	138	138	138			

Note: 1: DC ratings do not apply to NOEM (Normally Open Early Make) and NCLB (Normally Closed Late Break) contact blocks HT8C and HT8D.

2: Maximum make or break volt-amperes at 300V or less

tPIL-84 **Pilot Devices** 1 - 8 0 0 - 6 3 3 - 0 4 0 5

FAT-N HT800 30mm Momentary Pushbuttons **Cutler-Hammer**







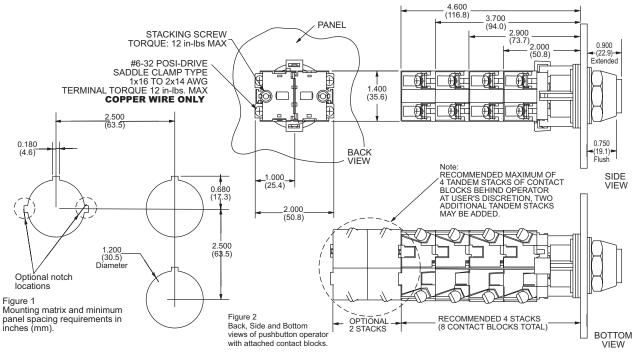
Contact Type	Button Color	Flush Head Momentary		Extended I Momenta		Mushroom Head Momentary		
	00101	Catalog Number Price Ca		Catalog Number	Price	Catalog Number	Price	
	Black	НТ8ААН	\$16.00	HT8ABH	\$16.00	HT8AEH	\$34.00	
Operator Only, No Contacts	Red	HT8AAR	\$16.00	HT8ABR	\$16.00	HT8AER	\$34.00	
•	Green	HT8AAG	\$16.00	HT8ABG	\$16.00	HT8AEG	\$34.00	
	Black	*НТ8ААНА	\$25.50	*HT8ABHA	\$25.50	*HT8AEHA	\$44.00	
1 N.O.	Red	*HT8AARA	\$25.50	*HT8ABRA	\$25.50	*HT8AERA	\$44.00	
	Green	*HT8AAGA	\$25.00	*HT8ABGA	\$25.50	*HT8AEGA	\$44.00	
	Black	*HT8AAHB	\$25.50	*HT8ABHB	\$25.50	*HT8AEHB	\$44.00	
1 N.C.	Red	*HT8AARB	\$25.50	*HT8ABRB	\$25.50	*HT8AERB	\$44.00	
	Green	*HT8AAGB	\$25.50	*HT8ABGB	\$25.50	*HT8AEGB	\$44.00	
	Black	*HT8AAHAB	\$33.50	*HT8ABHAB	\$33.50	*HT8AEHAB	\$53.00	
1 N.O. and 1 N.C.	Red	*HT8AARAB	\$33.50	*HT8ABRAB	\$33.50	*HT8AERAB	\$53.00	
	Green	*HT8AAGAB	\$33.50	*HT8ABGAB	\$33.50	*HT8AEGAB	\$53.00	
	Black	*HT8AAHF1Q1	\$53.00	*HT8ABHF1Q1	\$53.00	*HT8AEHF1Q1	\$70.50	
2 N.O. and 2 N.C.	Red	*HT8AARF1Q1	\$53.00	*HT8ABRF1Q1	\$53.00	*HT8AERF1Q1	\$70.50	
	Green	*HT8AAGF1Q1	\$53.00	*HT8ABGF1Q1	\$53.00	*HT8AEGF1Q1	\$70.50	

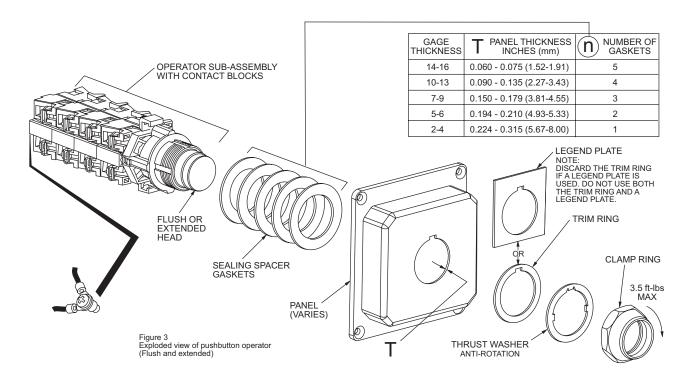
Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.

FATON HT800 30mm Momentary Pushbuttons

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)





tPIL-86 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

FATON HT800 30mm Two-position Push-pull Button

Cutler-Hammer

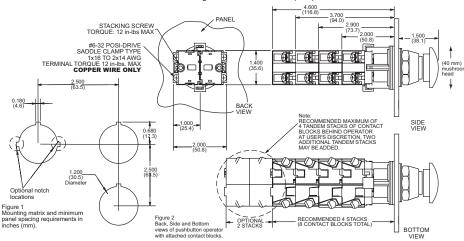


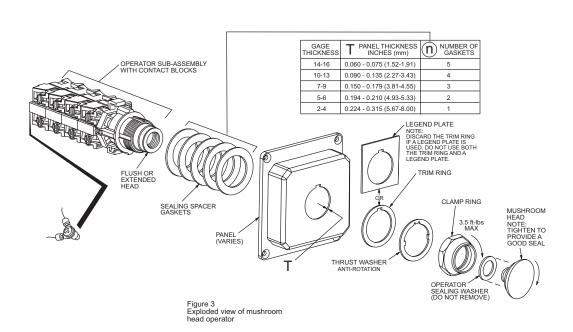
Contact	Operator Position		Two-position Maintained Push-Pull			
Configuration	Out	I n	Color	Catalog Number	Price	
Operator Only			Red	HT8CBR	\$52.50	
1 N.C.	Х	0	Red	*HT8CBRB	\$62.00	
1 N.O. and 1 N.C.	"0 X"	" X O"	Red	*HT8CBRAB	\$70.50	

Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AUTOMATIONDIRECT. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)







HT800 30mm Push-Pull **Illuminated Pushbutton**

Contact Configuration	24 Volt Incandescent full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price	24 Volt LED full Voltage Lamp	Price	120 Volt LED full Voltage Lamp	Price		
Red Lens										
Operator only	HT8FBRV3	\$91.50	HT8FBRV7	\$91.50	HT8FBRF3	\$101.00	HT8FBRF7	\$101.00		
1 N.O.	*HT8FBRAV3	\$89.00	*HT8FBRAV7	\$89.00	*HT8FBRAF3	\$97.00	*HT8FBRAF7	\$97.00		
1 N.C.	*HT8FBRBV3	\$89.00	*HT8FBRBV7	\$89.00	*HT8FBRBF3	\$97.00	*HT8FBRBF7	\$97.00		
			Green Len	S						
Operator only	HT8FBGV3	\$91.50	HT8FBGV7	\$91.50	HT8FBGF3	\$101.00	HT8FBGF7	\$101.00		
1 N.O.	*HT8FBGAV3	\$89.00	*HT8FBGAV7	\$89.00	*HT8FBGAF3	\$97.00	*HT8FBGAF7	\$97.00		
1 N.C.	*HT8FBGBV3	\$89.00	*HT8FBGBV7	\$89.00	*HT8FBGBF3	\$97.00	*HT8FBGBF7	\$97.00		



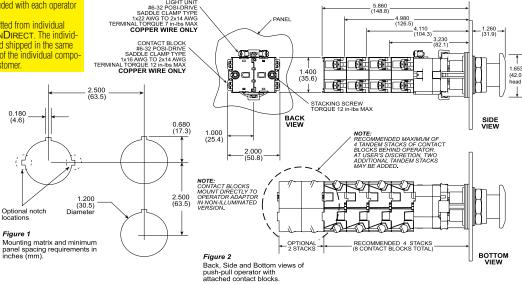
HT8FBRV3

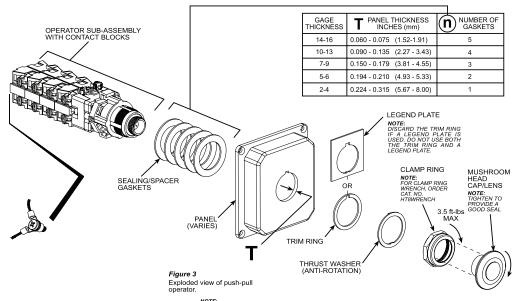


HT8FBGF3 30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)

Notes: A grounding kit is included with each operator

or switch assembly.
*Part numbers with an * are kitted from individual components at AUTOMATIONDIRECT. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components nents must be done by the customer.





NOTE: FOR EASY BULB REMOVAL FROM FRONT OF PANEL USE BULB REMOVAL TOOL CATNO. HT8LAMPTOOL

tPIL-88 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



HT800 30mm Two-position Selector Switches

Cutler-Hammer



HT8JAH3A knob version



HT8JDH3A lever version

Contact	Operator Type M=Maintained	Standard Black Knob Operator		Standard Black Lever Operator		
Type S=Spring Return		Catalog Number	Price	Catalog Number	Price	
No Contacts	M M	HT8JAH3A	\$22.00	HT8JDH3A	\$22.00	
NU CUITACIS	M <s< th=""><th>HT8JNH3A</th><th>\$34.50</th><th>HT8JPH3A</th><th>\$34.50</th></s<>	HT8JNH3A	\$34.50	HT8JPH3A	\$34.50	
1 N.O.	M M	*HT8JAH3AA5	\$30.50	*HT8JDH3AA5	\$30.50	
1 N.O.	M <s< th=""><th>*HT8JNH3AA5</th><th>\$44.00</th><th>*HT8JPH3AA5</th><th>\$44.00</th></s<>	*HT8JNH3AA5	\$44.00	*HT8JPH3AA5	\$44.00	

Switch Part Numbers	Contact Blocks		Cam Code 3A	
			Switch	Position
HT8JAH3A, HT8JNH3A, HT8JAH3AA5, HT8JNH3AA5, HT8JDH3A, HT8JPH3A, HT8JDH3AA5, HT8JPH3AA5 (Contact block configuration varies with part number)	Left	Right		
	N.O.		Х	0
Two-position Selector Switch	N.C.		0	Х
Iwo-position selector switch		N.O.	0	Χ
		N.C.	Χ	0
Note: AutomationDirect only offers cam code 3A for two	position seled	tor switches.	X = On	O = Off

Part numbers with an * are kitted from individual components at AUTOMATIONDIRECT. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.

HT800 30mm Three-position Selector Switches

Cutler-Hammer



HT8JBH1D knob version



HT8JEH1D lever version

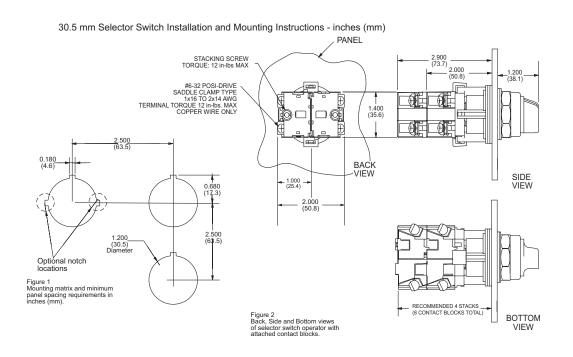
Contact	Operator Type M=Maintained	Standard Black Knob Operator		Standard Black Lever Operator		
Type S=Spring Return		Catalog Number	Price	Catalog Number	Price	
	MMM	HT8JBH1D	\$22.00	HT8JEH1D	\$22.00	
No Contacts	MM < S	HT8JUH1D	\$34.50	HT8JVH1D	\$34.50	
	S > M < S	HT8JXH1D	\$34.50	HT8JYH1D	\$34.50	
	MMM	*HT8JBH1DAA5	\$40.00	*HT8JEH1DAA5	\$40.00	
2 N.O.	MM < S	*HT8JUH1DAA5	\$53.00	*HT8JVH1DAA5	\$53.00	
	S > M < S	*HT8JXH1DAA5	\$53.00	*HT8JYH1DAA5	\$53.00	

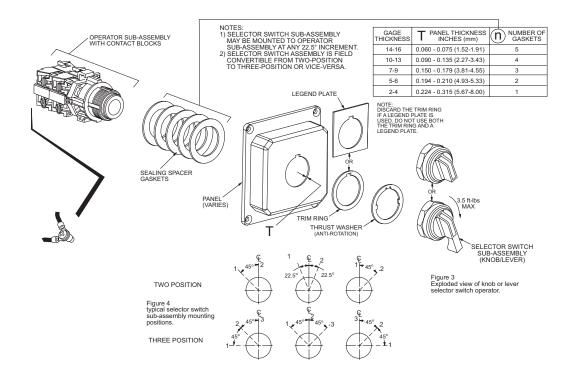
Switch Part Numbers	Contact Blocks		Cam Code 1D)
HT8JBH1D, HT8JUH1D, HT8JXH1D, HT8JBH1DAAD,			Switch Position		
HT8JUH1DAA5, HT8JXH1DAA5, HT8JEH1D, HT8JVH1D, HT8JYH1D, HT8JEH1DAA5, HT8JVH1DAA5, HT8JYH1DAA5(contact block configuration var- ies with part number)	Left Ri	Right			
	NO		Χ	0	0
	NC		0	Χ	Χ
Three-position		NO	0	0	Χ
Selector Switch		NC	Χ	Χ	0
	*N0	N0	Χ	0	Χ
	**NC	NC	0	Χ	0
* Indicates contact blocks wired in parallel ** Indicates contact blocks wired in series			X = On	O = Off	

Note: AutomationDirect **only offers cam code 1D for three-position selector switches.** Note: For additional contact blocks, see HT800 accessories in this section.



HT800 30mm Three-position Selector Switches





tPIL-90 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



HT800 30mm Extended Illuminated **Pushbuttons**



HT8GBRV7



Green

HT8GBGV7



Amber

HT8GBAV7



Clear

White

HT8GBWV7



Yellow

HT8GBYV7



HT8GBBV7

Blue

Contact Configuration	24 Volt Incandescent full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price				
	Red	Lens						
Operator only	HT8GBRV3	\$52.50	HT8GBRV7	\$52.50				
1 N.O.	*HT8GBRAV3	\$62.00	*HT8GBRAV7	\$62.00				
1 N.C.	*HT8GBRBV3	\$62.00	*HT8GBRBV7	\$62.00				
	Green Lens							
Operator only	HT8GBGV3	\$52.50	HT8GBGV7	\$52.50				
1 N.O.	*HT8GBGAV3	\$62.00	*HT8GBGAV7	\$62.00				
1 N.C.	*HT8GBGBV3	\$62.00	*HT8GBGBV7	\$62.00				
	Ambe	er Lens						
Operator only	HT8GBAV3	\$52.50	HT8GBAV7	\$52.50				
1 N.O.	*HT8GBAAV3	\$62.00	*HT8GBAAV7	\$62.00				
1 N.C.	*HT8GBABV3	\$62.00	*HT8GBABV7	\$62.00				
	Clea	r Lens						
Operator only	HT8GBCV3	\$52.50	HT8GBCV7	\$52.50				
1 N.O.	*HT8GBCAV3	\$62.00	*HT8GBCAV7	\$62.00				
1 N.C.	*HT8GBCBV3	\$62.00	*HT8GBCBV7	\$62.00				
	White	e Lens						
Operator only	HT8GBWV3	\$52.50	HT8GBWV7	\$52.50				
1 N.O.	*HT8GBWAV3	\$62.00	*HT8GBWAV7	\$62.00				
1 N.C.	*HT8GBWBV3	\$62.00	*HT8GBWBV7	\$62.00				
	Yello	w Lens						
Operator only	HT8GBYV3	\$52.50	HT8GBYV7	\$52.50				
1 N.O.	*HT8GBYAV3	\$62.00	*HT8GBYAV7	\$62.00				
1 N.C.	*HT8GBYBV3	\$62.00	*HT8GBYBV7	\$62.00				
	Blue	Lens						
Operator only	HT8GBBV3	\$52.50	HT8GBBV7	\$52.50				
1 N.O.	*HT8GBBAV3	\$62.00	*HT8GBBAV7	\$62.00				
1 N.C.	*HT8GBBBV3	\$62.00	*HT8GBBBV7	\$62.00				
	Spare Incandescent	Lamps F	or HT8 Series					
Spare lamp	HT8BULBV3	\$7.50	HT8BULBV7	\$7.50				

See HT800 accessories in this section.

Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AUTOMATIONDIRECT. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer. Lens not sold separately.



HT800 30mm Extended Illuminated Pushbuttons

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)

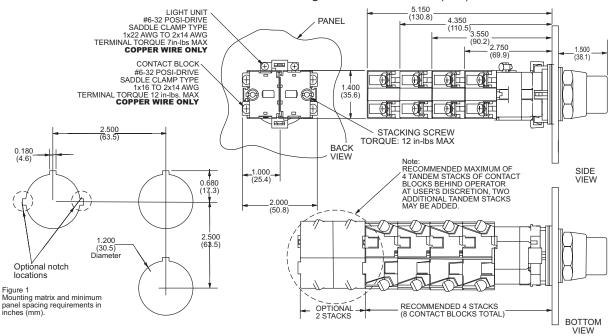
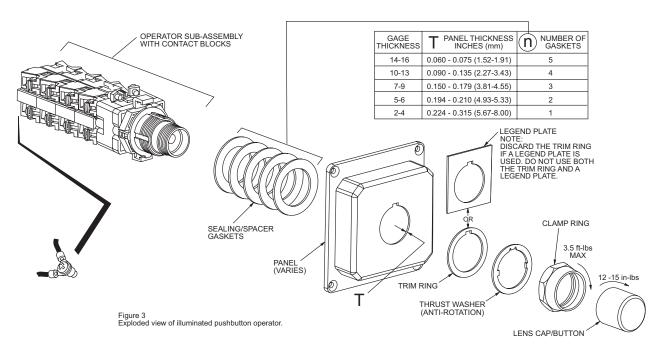


Figure 2 Back, Side and Bottom views of pushbutton operator with attached contact blocks.



tPIL-92 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



HT800 30mm Push-to-Test Indicators



Red

HT8GVRV7



Green



Amber

HT8GVAV7



Clear

HT8GVCV7



HT8GVWV7

White



Yellow

HT8GVYV7



Blue

HT8GVBV7

Push-To-Test Indicator	24 Volt AC/DC Incandescent Full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt AC/ DC Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price
	Re	d Lens		
PTT indicator assembly	HT8GVRV3	\$70.50	HT8GVRV7	\$70.50
	Gre	en Lens		
PTT indicator assembly	HT8GVGV3	\$70.50	HT8GVGV7	\$70.50
	Ami	ber Lens		
PTT indicator assembly	HT8GVAV3	\$70.50	HT8GVAV7	\$70.50
	Cle	ar Lens		
PTT indicator assembly	HT8GVCV3	\$70.50	HT8GVCV7	\$70.50
	Wh	ite Lens		
PTT indicator assembly	HT8GVWV3	\$70.50	HT8GVWV7	\$70.50
	Yell	ow Lens		
PTT indicator assembly	HT8GVYV3	\$70.50	HT8GVYV7	\$70.50
	Blu	ie Lens		
PTT indicator assembly	HT8GVBV3	\$70.50	HT8GVBV7	\$70.50
	Spare Incandescen	t Lamps For	HT8 Series	
Spare lamp	HT8BULBV3	\$7.50	HT8BULBV7	\$7.50

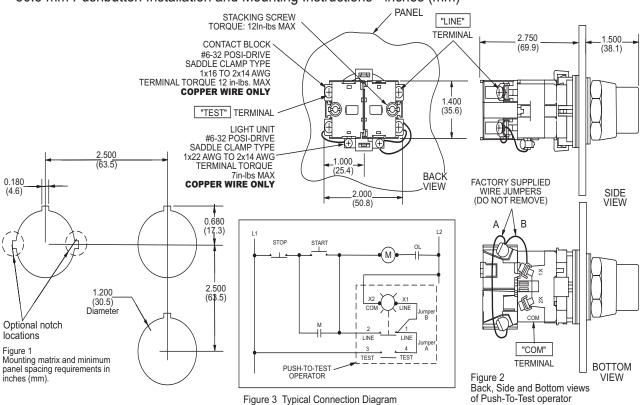
See HT800 accessories in this section.

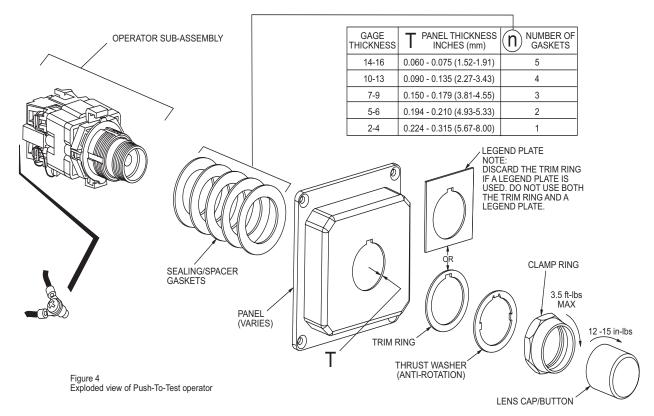
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EAT-N Cutler-Hammer HT800 30mm Push-to-Test Indicators

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)





tPIL-94 Pilot Devices



FATON HT800 30mm Incandescent Indicators





HT8HFRV7

Red



Green

HT8HFGV7



HT8HFAV7

Amber



HT8HFCV7

Clear



HT8HFWV7

White



HT8HFYV7

Yellow



Blue

Incandescent Indicator	24 Volt Incandescent Full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price			
	R	ed Lens					
Indicator assembly	HT8HFRV3	\$52.50	HT8HFRV7	\$52.50			
	Green Lens						
Indicator assembly	HT8HFGV3	\$52.50	HT8HFGV7	\$52.50			
	Am	ber Lens					
Indicator assembly	HT8HFAV3	\$52.50	HT8HFAV7	\$52.50			
	CI	ear Lens					
Indicator assembly	HT8HFCV3	\$52.50	HT8HFCV7	\$52.50			
	W	hite Lens					
Indicator assembly	HT8HFWV3	\$52.50	HT8HFWV7	\$52.50			
	Yei	low Lens					
Indicator assembly	HT8HFYV3	\$52.50	HT8HFYV7	\$52.50			
	Blue Lens						
Indicator assembly	HT8HFBV3	\$52.50	HT8HFBV7	\$52.50			
	Spare Incandescei	nt Lamps Fo	r HT8 Series				
Spare lamp	HT8BULBV3	\$7.50	HT8BULBV7	\$7.50			

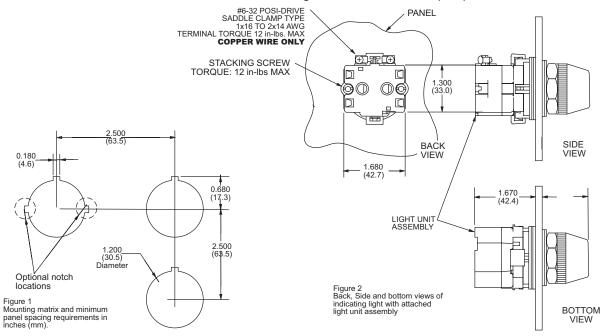
See HT800 accessories in this section.

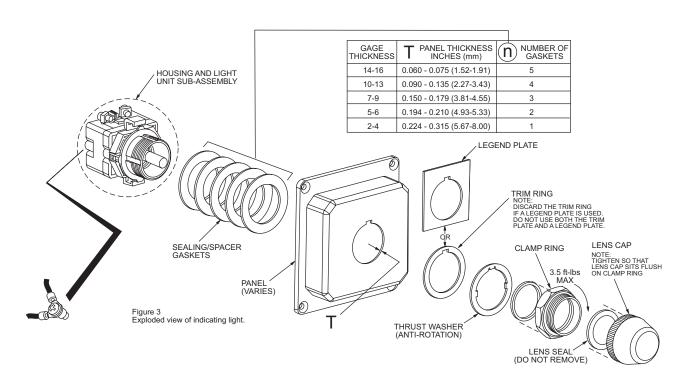
Notes: A grounding kit is included with each operator or switch assembly.

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FAT-N Cutler-Hammer HT800 30mm Incandescent Indicators

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)





tPIL-96 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



FAT•N HT800 30mm Guarded Flush **Pushbuttons**



HT8GDRV3



HT8GDGV3



HT8GDAV3



HT8GDCV3



HT8GDWV3



HT8GDYV3



HT8GDBV3

Contact Configuration	24 Volt AC/DC Incandescent Full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt AC/DC Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price	24 Volt LED Full Voltage Lamp	Price	120 Volt LED Full Voltage Lamp	Price
			Red Lens					
Operator only	HT8GDRV3	\$58.50	HT8GDRV7	\$58.50	HT8GDRF3	\$68.00	HT8GDRF7	\$68.00
1 N.O.	*HT8GDRAV3	\$62.00	*HT8GDRAV7	\$62.00	*HT8GDRAF3	\$72.00	HT8GDRAF7	\$72.00
1 N.C.	*HT8GDRBV3	\$62.00	*HT8GDRBV7	\$62.00	*HT8GDRBF3	\$72.00	HT8GDRBF7	\$72.00
			Green Len	s				
Operator only	HT8GDGV3	\$58.50	HT8GDGV7	\$58.50	HT8GDGF3	\$68.00	HT8GDGF7	\$68.00
1 N.O.	*HT8GDGAV3	\$62.00	*HT8GDGAV7	\$62.00	*HT8GDGAF3	\$72.00	HT8GDGAF7	\$72.00
1 N.C.	*HT8GDGBV3	\$62.00	*HT8GDGBV7	\$62.00	*HT8GDGBF3	\$72.00	HT8GDGBF7	\$72.00
			Amber Len	s				
Operator only	HT8GDAV3	\$58.50	HT8GDAV7	\$58.50	HT8GDAF3	\$68.00	HT8GDAF7	\$68.00
1 N.O.	*HT8GDAAV3	\$62.00	*HT8GDAAV7	\$62.00	*HT8GDAAF3	\$72.00	*HT8GDAAF7	\$72.00
1 N.C.	*HT8GDABV3	\$62.00	*HT8GDABV7	\$62.00	*HT8GDABF3	\$72.00	*HT8GDABF7	\$72.00
			Clear Lens	s				
Operator only	HT8GDCV3	\$58.50	HT8GDCV7	\$58.50	HT8GDCF3	\$68.00	HT8GDCF7	\$68.00
1 N.O.	*HT8GDCAV3	\$62.00	*HT8GDCAV7	\$62.00	*HT8GDCAF3	\$72.00	*HT8GDCAF7	\$72.00
1 N.C.	*HT8GDCBV3	\$62.00	*HT8GDCBV7	\$62.00	*HT8GDCBF3	\$72.00	*HT8GDCBF7	\$72.00
			White Len	s				
Operator only	HT8GDWV3	\$58.50	HT8GDWV7	\$58.50	HT8GDWF3	\$68.00	HT8GDWF7	\$68.00
1 N.O.	*HT8GDWAV3	\$62.00	*HT8GDWAV7	\$62.00	*HT8GDWAF3	\$72.00	*HT8GDWAF7	\$72.00
1 N.C.	*HT8GDWBV3	\$62.00	*HT8GDWBV7	\$62.00	*HT8GDWBF3	\$72.00	*HT8GDWBF7	\$72.00
			Yellow Len	IS				
Operator only	HT8GDYV3	\$58.50	HT8GDYV7	\$58.50	HT8GDYF3	\$68.00	HT8GDYF7	\$68.00
1 N.O.	*HT8GDYAV3	\$62.00	*HT8GDYAV7	\$62.00	*HT8GDYAF3	\$72.00	*HT8GDYAF7	\$72.00
1 N.C.	*HT8GDYBV3	\$62.00	*HT8GDYBV7	\$62.00	*HT8GDYBF3	\$72.00	*HT8GDYBF7	\$72.00
			Blue Lens	;				
Operator only	HT8GDBV3	\$58.50	HT8GDBV7	\$58.50	HT8GDBF3	\$68.00	HT8GDBF7	\$68.00
1 N.O.	*HT8GDBAV3	\$62.00	*HT8GDBAV7	\$62.00	*HT8GDBAF3	\$72.00	*HT8GDBAF7	\$72.00
1 N.C.	*HT8GDBBV3	\$62.00	*HT8GDBBV7	\$62.00	*HT8GDBBF3	\$72.00	*HT8GDBBF7	\$72.00
	Spare Inca	ndescei	nt and LED Lamps Fo	or HT8 S	Series - startino	y prices	;	
	HT8BULBV3	\$7.50	HT8BULBV7	\$7.50	HT8LED**F3	\$21.50	HT8LED**F7	\$21.50
			n Guard for Illumina					
			HT8A15					\$9.50
See HTRNN accessor	ee HT800 accessories in this section.							

See HT800 accessories in this section.

Notes: A grounding kit is included with each operator or switch assembly.

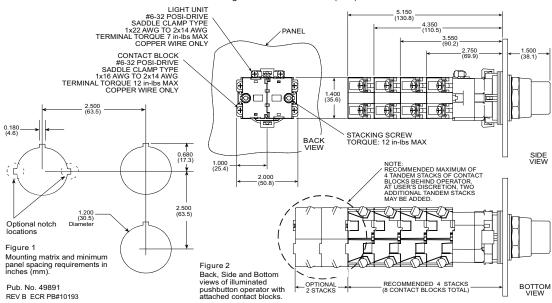
^{*} Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer. Lens not sold separately.

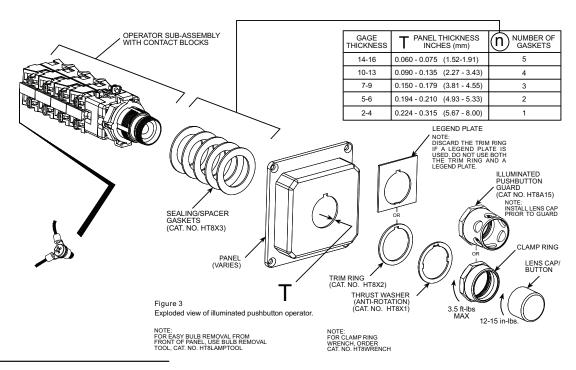
^{**}Insert letter of color bulb needed; for example, HT8LEDYF3 is the part number for a yellow 24 volt LED replacement bulb. See the accessories page at the end of this section for the complete listing of LED replace-



HT800 30mm Guarded Flush **Pushbuttons**

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)

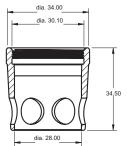


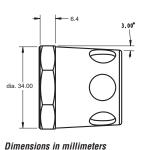


Guard dimensions

tPIL-98







1 - 8 0 0 - 6 3 3 - 0 4 0 5 **Pilot Devices**



HT800 30mm Contact Blocks & Accessories

Contact blocks



HT8 Series Contact Blocks					
Part Number	Description	Price			
HT8A	Normally open contact block for HT8 series switches. NEMA Rated A600, P6001	\$9.50			
НТ8В	Normally closed contact block for HT8 series switches. NEMA Rated A600, P600¹	\$9.50			
HT8C	Early closing normally open contact block for HT8 series switches. NEMA Rated A6001	\$23.00			
HT8D	Late opening normally closed contact block for HT8 series switches. NEMA Rated A6001	\$9.50			
HT8E	Logic level normally open contact block for HT8 series switches. Gold plated contacts for reliable low energy switching. Power Rating: Min 1mA @ 5V; Max 500mA 28V.	\$18.50			

Notes:

- 1. See HT800 specifications in this section for typical contact wiring diagram.
- 2. NEMA ICS 5-2000. For more information, refer to HT800 technical specifications and control circuit contact electrical ratings at the beginning of this section.

Spare parts and tools











HT8WRENCH

HT8LAMPTOOL

109305

HT8BULBV3

HT8LEDYF3

	HT8 Series Spare Parts and Tools	
Part Number	Description	Price
HT8WRENCH	Installation wrench for Cutler-Hammer HT8 series and E22 series pushbuttons, switches, and indicators	\$10.50
HT8LAMPTOOL	Bulb extraction tool for removing bulbs from switches, indicators and stacklights	\$5.50
109305	Knockout punch hole cutting tool for 30.5 mm mounting hole. Includes punch, die and draw stud	\$31.00
HT8X1	Spare anti-rotation ring for HT8 series. Included with each HT8 device. (not shown)	\$2.00
HT8X2	Spare trim ring for HT8 series. Included with each HT8 device. (not shown)	\$2.00
HT8X3	Spare sealing/spacing ring for HT8 series. Included with each HT8 device. (not shown)	\$2.00
HT8GR1	Spare grounding kit for HT8 series devices except non-PTT indicators. Included with each HT8 device. (not shown)	\$2.00
HT8GR2	Spare grounding kit for HT8 series non-PTT indicators. Included with each HT8 device. (not shown)	\$2.00
HT8BULBV3	24 volt incandescent bulb for HT8 illuminated devices. This is an extended bulb for enhanced illumination with HT8 devices. 50mA at 24 volts.	\$7.50
HT8BULBV7	120 volt incandescent bulb for HT8 illuminated devices. This is an extended bulb for enhanced illumination with HT8 devices. 19mA at 120 volts.	\$7.50
HT8LEDRF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Red	\$21.50
HT8LEDYF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Yellow	\$21.50
HT8LEDGF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Green	\$23.00
HT8LEDBF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Blue	\$24.50
HT8LEDWF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: White	\$27.00
HT8LEDAF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Amber	\$22.00
HT8LEDRF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Red	\$21.50
HT8LEDYF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Yellow	\$21.50
HT8LEDGF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Green	\$23.00
HT8LEDBF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Blue	\$24.50
HT8LEDWF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: White	\$27.00
HT8LEDAF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Amber	\$22.00

NOTE: LED modules have very low current draw and should not be used with triac output devices like PLC triac output modules.



30mm Legend Plates

For Pushbutton Operators and Indicating Lights					
Legend	Color of Field	Catalog Number	Price		
Clamp	Black	HT8SP90	\$4.50		
Close	Black	HT8SP73	\$4.50		
Down	Black	HT8SP74	\$4.50		
Emergency Stop	Red	HT8SP13	\$4.50		
Fast	Black	HT8SP75	\$4.50		
Faster	Black	HT8SP87	\$4.50		
Feeder On	Black	HT8SP94	\$4.50		
Feeder Off	Black	HT8SP95	\$4.50		
Forward	Black	HT8SP15	\$4.50		
High	Black	HT8SP16	\$4.50		
In	Black	HT8SP17	\$4.50		
Inch	Black	HT8SP18	\$4.50		
Jog	Black	HT8SP19	\$4.50		
Jog Forward	Black	HT8SP20	\$4.50		
Jog Reverse	Black	HT8SP21	\$4.50		
Low	Black	HT8SP22	\$4.50		
Lower	Black	HT8SP23	\$4.50		
Lube-fail	Black	HT8SP92	\$4.50		
Motor Run	Black	HT8SP81	\$4.50		
Motor Stop	Black	HT8SP82	\$4.50		
Off	Red	HT8SP24	\$4.50		
On	Black	HT8SP25	\$4.50		
Open	Black	HT8SP26	\$4.50		
Out	Black	HT8SP27	\$4.50		
Power On	Black	HT8SP80	\$4.50		
Raise	Black	HT8SP28	\$4.50		
Ready	Black	HT8SP86	\$4.50		
Reset	Black	HT8SP29	\$4.50		
Reverse	Black	HT8SP30	\$4.50		
Run	Black	HT8SP31	\$4.50		
Safe	Black	HT8SP85	\$4.50		
Slow	Black	HT8SP32	\$4.50		
Slower	Black	HT8SP88	\$4.50		
Start	Black	HT8SP33	\$4.50		
Stop	Red	HT8SP34	\$4.50		
Test	Black	HT8SP83	\$4.50		
Transfer	Black	HT8SP93	\$4.50		
Trip	Black	HT8SP84	\$4.50		
Unclamp	Black	HT8SP91	\$4.50		
Up	Black	HT8SP35	\$4.50		



For Selector Switch Operators/ Two-Position					
Legend	Color of Field	Catalog Number	Price		
Forward Reverse	Black	HT8SP38	\$4.50		
Hand Auto	Black	HT8SP39	\$4.50		
High Low	Black	HT8SP40	\$4.50		
Jog Run	Black	HT8SP41	\$4.50		
Manual Auto	Black	HT8SP67	\$4.50		
Off On	Black	HT8SP42	\$4.50		
Open Close	Black	HT8SP43	\$4.50		
Run Jog	Black	HT8SP44	\$4.50		
Safe Run	Black	HT8SP45	\$4.50		
Start Jog	Black	HT8SP46	\$4.50		
Start Stop	Black	HT8SP47	\$4.50		
Up Down	Black	HT8SP48	\$4.50		

For PUSH/PULL Units				
Legend 3/32" lettering	Color of Field	Catalog Number	Price	
ON/OFF	Black	HT8PP5	\$4.50	
OPEN/CLOSE	Black	HT8PP8	\$4.50	
UP/DOWN	Black	HT8PP11	\$4.50	

NOTE: All 30 mm legend plates are plastic.

For Selector Switch Operators/ Three-Position				
Legend	Color of Field	Catalog Number	Price	
Auto Off Hand	Black	HT8SP49	\$4.50	
For. Off Rev	Black	HT8SP50	\$4.50	
For. Safe Rev.	Black	HT8SP69	\$4.50	
Hand Off Auto	Black	HT8SP51	\$4.50	
Man. Off Auto	Black	HT8SP68	\$4.50	
Open Off Close	Black	HT8SP53	\$4.50	
Run Safe Jog	Black	HT8SP70	\$4.50	
Up Off Down	Black	HT8SP54	\$4.50	
On Stop Safe	Black	HT8SP71	\$4.50	

Square Blank Plastic Legend Plates				
Lettering	Color of Field	Catalog Number	Price	
Black	White/Silver	HT8SP76	\$4.50	
White	Red/Black	HT8SP77	\$4.50	

Round Plastic Legend Plates				
Legend	Color of Field Catalog Number		Price	
ESTOP	Yellow	HT8RP79	\$4.50	

NOTE: 70 mm / 2-3/4" diameter

tPIL-100 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



Command Series Pilot Devices

Fuji Electric Command Series pilot devices are used in machine tools, industrial machines, control panels, distribution panels, and instrumentation panels. Pushbuttons improve interfacing with better layout and wiring, easier installation and increased safety. Reliability is also built in to handle complex mutli-functional controls.

The AR22 series is configurable with a wide range of choices. Our selection of 22mm pushbuttons include non-illuminated as well as illuminated models with flush round heads, extended

round heads, and mushroom style heads. Other 22mm pilot devices available include emergency stop pushbuttons, selector switches, pilot lights, joystick selector switches, and buzzers.

The AR30 series of 30mm pilot devices includes a selection of giant head metal pushbuttons.

We also offer a wide array of accessories to complement our selection of Fuji 22mm and 30mm Command Series pilot devices.

AR22 Series Features

- 22.5 mm diameter hole
- Fits 1mm to 6mm max panel thickness
- Mountable in either a 22.3 or 25.5 mm diameter cutout (except for joysticks and buzzers)
- Provided with release arm
- Terminal cover included for added safety
- · Wiring possible in vertical and horizontal directions
- Oil and dust-proof operator modules (IP65), except for buzzers DR22B5 (IP00), DR22B8 (IP54)

AR30 Series Features

- 30.5 mm diameter hole
- Quick snap-on replacement of contact blocks
- Double-break self-cleaning contacts
- Terminal cover included for added safety
- Oil and dust-proof operator modules (IP65)













22mm Pushbuttons

22mm E-Stop Pushbuttons

22mm Selector Switches









22mm Pilot Lights

22mm Electronic Buzzers

22mm Joysticks

30mm Pushbuttons

Command Series Accessories



























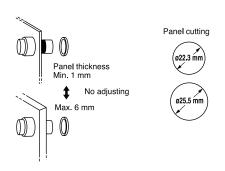
F- Fuji Electric 22mm Pilot Devices Overview

Pushbuttons, Selectors, Pilot Lights, Joysticks, Buzzers

Fuji Electric AR22 pilot devices can be mounted on panels up to 6mm thick by securing the operator with a locking nut from behind the panel without needing any adjustment.

Easy mounting

Fuji AR22 pilot devices can be mounted on panels between 1 and 6mm thick and are mountable in panel cutouts of 22.3 or 25.5 mm. The button and lens can be mounted on a panel while the operator is engaged.



Wiring

These pilot devices can be wired in both vertical and lateral directions making wiring in narrow spaces easier. Contact block color coding makes wiring even easier.

1NO: Blue, 1NC: Red

Lamp terminal and transformer unit: black



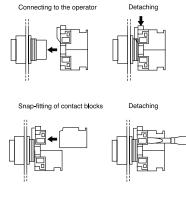
Short depth

Fuji AR22 pilot devices are designed to occupy less space than traditional 22mm devices.



Quick contact block and transformer replacement

Fuji AR22 pilot devices have a snap-on mounting that makes replacing or adding a contact block and transformer unit easier.



Safety

AR22 pilot devices include terminal covers for added safety and security. Emergency stop pushbuttons include a trigger action mechanism that prevents the contacts from moving until the button is pushed and locked.

Protection

AR22 pilot devices feature oil and dust-tight operator construction (IP65), except for buzzers DR22B5 (IPOO), DR22B8 (IP54).













tPIL-102 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Fuji Electric Command Non-Illuminated 22mm Metal Pushbuttons



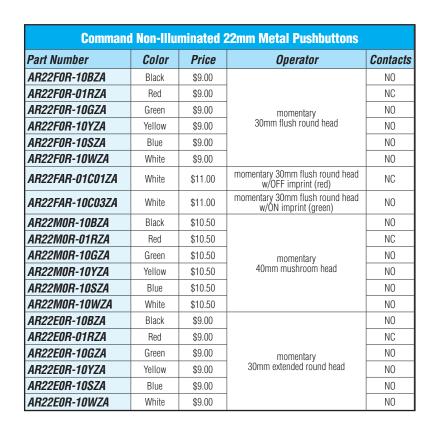
AR22FOR-01RZA



AR22MOR-10YZA



AR22EOR-10SZA



Dimensions mm [in]

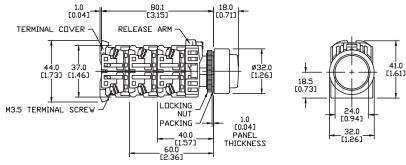


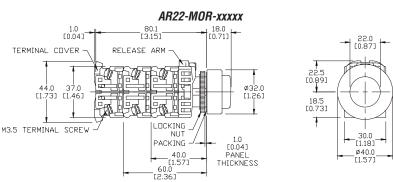
AR22FAR-01C01ZA



AR22FAR-10C03ZA

AR22-FOR-xxxxx, AR22-FAR-xxxxx, AR22-EOR-xxxxx





Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Fuji Electric Command Illuminated 22mm Metal and Plastic Pushbuttons



AR22F0L-10E3YZA



AR22F5L-10E3SZA



AR22EOL-01E3GZA



AR22V5L-01L3R



AR22MOL-01E3RZA



AR22MOL-01L3RZA

Command LED Illuminated 22mm Pushbuttons						
Part Number	Color	Price	Operator	Material	Lamp Voltage	Contacts
AR22F0L-01E3RZA	Red	\$20.00			24V AC/DC (without transformer)	NC
AR22F0L-10E3GZA	Green	\$20.00				NO
AR22F0L-10E3YZA	Yellow	\$20.00	1			NO
AR22F0L-10E3SZA	Blue	\$26.00		(without transformer)	NO	
AR22F0L-10E3WZA	White	\$18.50	30mm momentary	Metal		NO
AR22F0L-01L3RZA	Red	\$26.50	flush round head	ivietai	115-127 VAC (with transformer)	NC
AR22FOL-10L3GZA	Green	\$26.50				NO
AR22FOL-10L3YZA	Yellow	\$26.50				NO
AR22FOL-10L3SZA	Blue	\$29.00				NO
AR22FOL-10L3WZA	White	\$26.50				NO
AR22F5L-10E3RZA	Red	\$25.00				NO
AR22F5L-10E3GZA	Green	\$25.00	_			NO
AR22F5L-10E3YZA	Yellow	\$25.00			24V AC/DC (without transformer)	NO
AR22F5L-10E3SZA	Blue	\$25.00]	(Without transformer)	NO	
AR22F5L-10E3WZA	White	\$25.00	30mm push-push	Metal		NO
AR22F5L-10L3RZA	Red	\$29.00	flush round head	Wictai		NO
AR22F5L-10L3GZA	Green	\$29.00	_		145 107 1/40	NO
AR22F5L-10L3YZA	Yellow	\$29.00	_		115-127 VAC (with transformer)	NO
AR22F5L-10L3SZA	Blue	\$29.00]			NO
AR22F5L-10L3WZA	White	\$29.00				NO
AR22EOL-01E3RZA	Red	\$16.50]		24V AC/DC (without transformer)	NC
AR22EOL-10E3GZA	Green	\$16.50				NO
AR22EOL-10E3YZA	Yellow	\$16.50				NO
AR22EOL-10E3SZA	Blue	\$26.50]			NO
AR22EOL-10E3WZA	White	\$16.50	30mm momentary			NO
AR22EOL-01L3RZA	Red	\$23.00	extended round head	extended Metal		NC
AR22EOL-10L3RZA	Red	\$23.00	Touriu riead			NO NO
AR22EOL-10L3GZA	Green	\$23.00		115-127 VAC	NO	
AR22EOL-10L3YZA	Yellow	\$23.00			(with transformer)	NO
AR22EOL-10L3SZA	Blue	\$29.00	1			NO
AR22EOL-10L3WZA	White	\$25.00			0.011.0.00	NO
AR22MOL-01E3RZA	Red	\$18.50	40mm momentary mushroom head	Metal	24V AC/DC (without transformer) 115-127 VAC	NC
AR22MOL-01L3RZA	Red	\$23.50	IIIusiii UUIII IItau	(with transformer)	NC	
AR22V5L-01E3R	Red	\$18.50	40mm push-lock, twist release,	Plastic	24V AC/DC (without tranformer)	NC
AR22V5L-01L3R	Red	\$29.50	with white arrow		115-127 VAC (with transformer)	NC

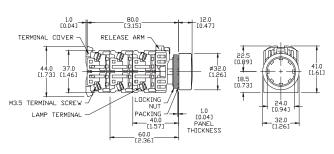


tPIL-104 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

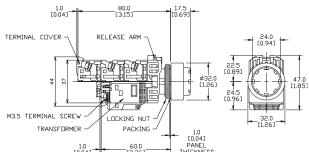
F- Fuji Electric Command Illuminated 22mm **Metal and Plastic Pushbuttons**

Dimensions mm [in]

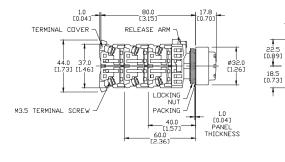
AR22-F0L-xxE3xxx. AR22-F5L-xxE3xxx



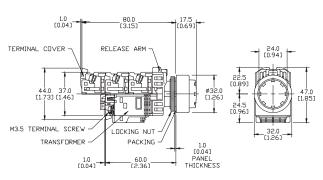
AR22-F0L-xxL3xxx, AR22-F5L-xxL3xxx



AR22-EOL-xxE3xxx

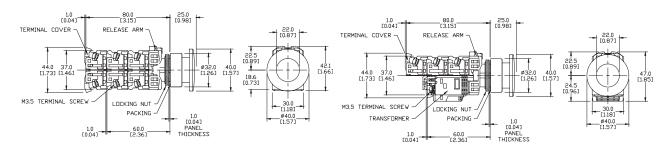


AR22-EOL-xxL3xxx



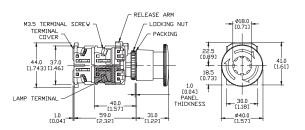
AR22MOL-01E3RZA



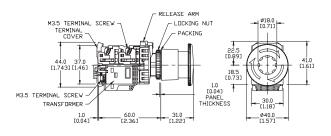


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AR22V5L-01E3R



AR22V5L-01L3R



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Fruji Electric Command 22mm Emergency Stop Pushbuttons



AR22VOR-01R

Command 22mm Emergency Stop Pushbuttons						
Part Number	Price	Description				
AR22VOR-01R	\$18.00	Non-illuminated, twist-release, plastic, red, NC, 40mm head with white arrow				
AR22V7R-01R	\$25.00	Non-illuminated, key-release, plastic, red, NC, 40mm head				
AR22Q2R-01R	\$22.50	Non-illuminated, push-pull, plastic, red, NC, 35mm head				
AR22V0L-01E3R	\$28.50	Illuminated, twist-release, plastic, red, NC, 40mm head with white arrow, 24V AC/DC				
AR22V0L-01L3R	\$32.50	Illuminated, twist-release, plastic, red, NC, 40mm head with white arrow, 115-127 VAC				
	Accessory					
AR9P719-5A	\$7.00	Emergency stop yellow plate, 70mm (2.76 in), aluminum.				









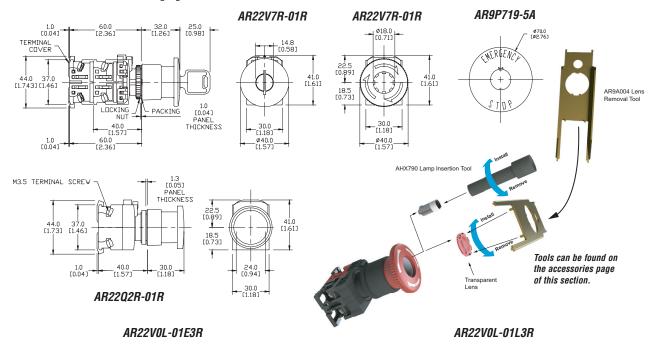
AR22V7R-01R

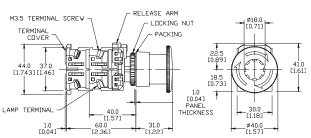
AR22Q2R-01R

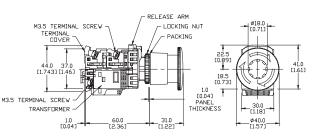
AR22VOL-01E3R

AR9P719-5A

Dimensions mm [in]







Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

tPIL-106 Pilot Devices

Fuji Electric Command Non-Illuminated 22mm Metal Selector Switches





AR22PR-210BZA

AR22JR-2B10AZA





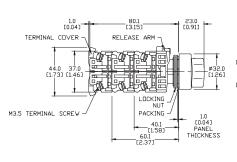
AR22WR-210BZA

AR9C022-A

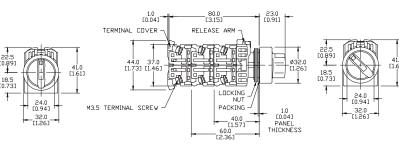
Dimensions mm [in]

Comman	Command Non-Illuminated 22mm Metal Selector Switches						
Part Number	Price	Operator	Operation	Key Removable Position	Contacts		
AR22PR-210BZA	\$10.50		2-pos maintained		NO		
AR22PR-010BZA	\$10.50	knob	2-pos spring return		NO		
AR22PR-322BZA	\$15.00	KIIUU	3-pos maintained	_	2 NO + 2 NC		
AR22PR-122BZA	\$15.00		3-pos spring return		2 NO + 2 NC		
AR22JR-2B10AZA	\$18.00		2-pos maintained	left and right	NO		
AR22JR-0A10AZA	\$21.00	key	2-pos spring return	left	NO		
AR22JR-3C22AZA	\$27.00		3-pos maintained	left, right, center	2 NO + 2 NC		
AR22WR-210BZA	\$11.50		2-pos maintained		NO		
AR22WR-010BZA	\$11.50	lever	2-pos spring return		NO		
AR22WR-322BZA	\$17.50	ievei	3-pos maintained	_	2 NO + 2 NC		
AR22WR-122BZA	\$16.00		3-pos spring return		2 NO + 2 NC		
	Accessory						
Part Number	Price	Description					
AR9C022-A	\$5.75	Replacement	key for Command Serie	es 22mm metal selector s	witches, 4 pcs.		

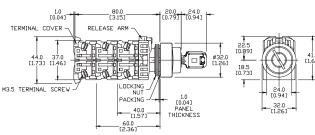
AR22PR-x10BZA



AR22PR-x22BZA

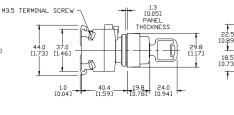


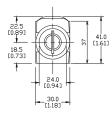
AR22JR-xx10AZA



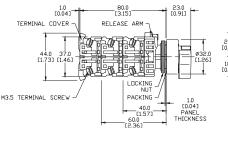
AR22JR-3C22AZA

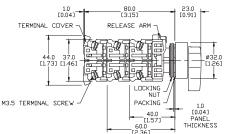
AR22WR-x22BZA

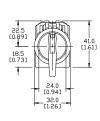




AR22WR-x10BZA







Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Fuji Electric Command Illuminated 22mm Metal Selector Switches



AR22PL-010E3RZA



AR22PL-210E3GZA



AR22PL-322E3YZA



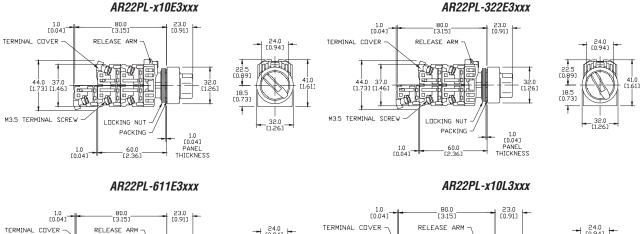
AR22PL-322E3SZA

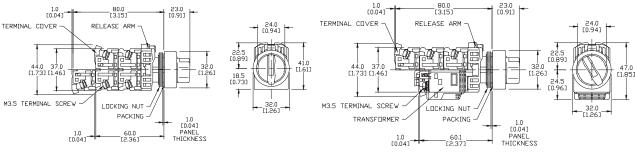
Comma	nd LED II	lluminate	d 22mm Metal Se	elector Switch	es	
Part Number	Color	Price	Operation	Contacts	Lamp Voltage	
AR22PL-010E3RZA	Red	\$20.00				
AR22PL-010E3GZA	Green	\$20.00	O non apring return	NO	24V AC/DC	
AR22PL-010E3YZA	Yellow	\$20.00	2-pos spring return		24V AG/DG	
AR22PL-010E3SZA	Blue	\$29.00				
AR22PL-210E3RZA	Red	\$20.00				
AR22PL-210E3GZA	Green	\$20.00	2-pos maintained	NO	24V AC/DC	
AR22PL-210E3YZA	Yellow	\$20.00	Z-pos mamameu	INO	24V AG/DG	
AR22PL-210E3SZA	Blue	\$29.00				
AR22PL-322E3RZA	Red	\$30.00				
AR22PL-322E3GZA	Green	\$30.00	3-position maintained	2 NO + 2 NC	24V AC/DC	
AR22PL-322E3YZA	Yellow	\$30.00	5-position maintained	2 NO + 2 NO	24V MO/DO	
AR22PL-322E3SZA	Blue	\$30.00				
AR22PL-611E3RZA	Red	\$29.00				
AR22PL-611E3GZA	Green	\$29.00	3-position spring/manual return	1 NO + 1 NC	24V AC/DC	
AR22PL-611E3YZA	Yellow	\$29.00	(left to center)			
AR22PL-611E3SZA	Blue	\$29.00				
AR22PL-010L3RZA	Red	\$26.50		NO		
AR22PL-010L3GZA	Green	\$26.50	2-pos spring return		115-127 VAC	
AR22PL-010L3YZA	Yellow	\$26.50	2 pos spring rotum		110 121 1/10	
AR22PL-010L3SZA	Blue	\$35.00				
AR22PL-210L3RZA	Red	\$24.00		NO	115-127 VAC	
AR22PL-210L3GZA	Green	\$24.00	2-pos maintained			
AR22PL-210L3YZA	Yellow	\$24.00	2 pos mamtamoa			
AR22PL-210L3SZA	Blue	\$35.00				
AR22PL-311L3RZA	Red	\$29.00				
AR22PL-311L3GZA	Green	\$29.00	3-position maintained	1 NO + 1 NC	115-127 VAC	
AR22PL-311L3YZA	Yellow	\$29.00	- position maintained			
AR22PL-311L3SZA	Blue	\$35.00				
AR22PL-611L3RZA	Red	\$30.00	2:			
AR22PL-611L3GZA	Green	\$30.00	3-position spring/manual return	1 NO + 1 NC	115-127 VAC	
AR22PL-611L3YZA	Yellow	\$30.00	(left to center)	7110 11110	110 121 1110	
AR22PL-611L3SZA	Blue	\$35.00				
	2-	Replacement Kno				
		Color	Part Number	Qty	Price	
		Red	AR9M005-R		\$3.00	
		Green	AR9M005-G	5 par/pk	\$3.00	
	10	Yellow	AR9M005-Y	5 per/pk	\$3.00	
		Blue	AR9M005-S		\$3.00	

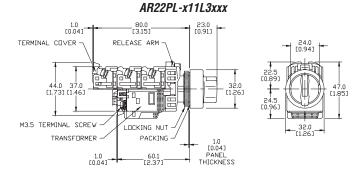
tPIL-108 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

F- Fuji Electric Command Illuminated 22mm Metal Selector Switches

Dimensions mm [in]







Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

F- Fuji Electric Command 22mm Pilot Lights



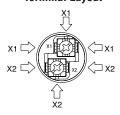
DR22E3L-E3GZA



DR22E3L-L3SZA

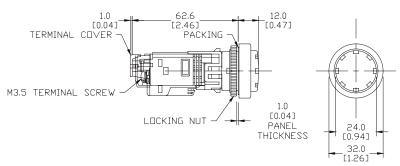
Command 22mm Pilot Lights								
Part Number	Color	Price	Lens	Lamp Voltage				
DR22E3L-E3RZA	Red	\$15.00						
DR22E3L-E3GZA	Green	\$15.00						
DR22E3L-E3YZA	Yellow	\$15.00		24V AC/DC without transformer				
DR22E3L-E3SZA	Blue	\$22.00						
DR22E3L-E3WZA	White	\$15.00	extended round					
DR22E3L-L3RZA	Red	\$18.50	exteriaea rouria					
DR22E3L-L3GZA	Green	\$18.50						
DR22E3L-L3YZA	Yellow	\$18.50		115-127 VAC with transformer				
DR22E3L-L3SZA	Blue	\$29.00						
DR22E3L-L3WZA	White	\$18.50						

DR22E3L-E3xxx Terminal Layout

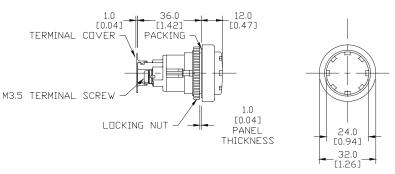


Dimensions mm [in]

DR22E3L-E3xxx



DR22E3L-L3xxx



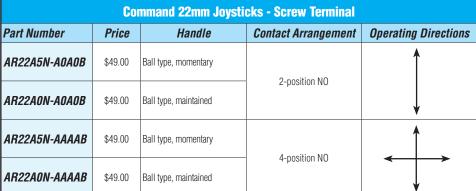
Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

tPIL-110 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Fuji Electric Command 22mm Joysticks



AR22A5N-A0A0B



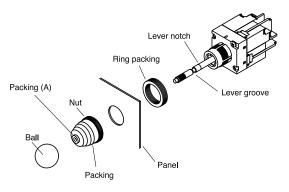


AR22AON-AAAAB

Joystick selector switch mounting on panel

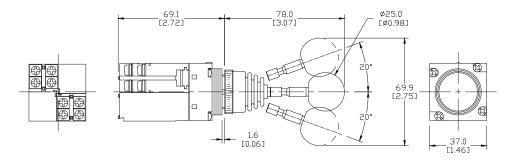
- (1) Twist and remove the ball from the operator.
- (2) If no locking nut is provided, loosen the nut and remove the switch after the packing part (A) shown in the illustration is stretched to the lever groove.
- (3) Mount the switch in the order opposite of removal. Set the packing to the notch on the lever as a reference. Do not separate the nut from the packing.
- (4) Use a torque wrench to tighten the nut from the front of the panel.

Note: Recommended tightening torque is 1 to 1.5 N·m.



Dimensions mm [in]

AR22AxN-AxAxB



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Fruji Electric Command 22mm Buzzers



DR22B8-EB

Command 22mm Buzzers								
Part Number	Qty	Price	Sound Type	Sound Level	LED Indicator	Operating Voltage		
DR22B8-EB	1	\$29.00	Intermittent/continuous	80dB @ 0.1 m		12-24V AC/DC		
DR22B8-HB	1	\$29.00	electronic sound	60dB @ 1m	_	100-110VAC		
DR22B5-EB	1	\$39.00	Intermittent/continuous	90dB @ 0.1 m	Red	12-24V AC/DC		
DR22B5-HB	1	\$39.00	electronic sound	70dB @ 1m	neu	100-110VAC		



DR22B5-HB

5	Specifications Specification Specification Specification Specification Specification Specification Specificatio						
	DR22B5	DR22B8					
Rated insulation voltage		mer: 60V AC/DC mer: 250VAC					
Durability	100	00h					
Frequency	2.4 to 3	3.3 kHz					
Intermittent cycle	Approx. 170-cycle/min						
Dielectric strength	Without transformer: 1000VAC 1 minute With transformer: 2000VAC 1 minute						
Insulation resistance	100MΩ or more ((500VDC megger)					
Pollution degree	;	3					
Vibration		double amplitude 0.1 mm uble amplitude 3.0 mm					
Shock	Mechanical dur	ability: 500 m/s²					
Ambient temperature	-20° to +60°C [-4° to +140°F] no condensation or no icing						
Storage temperature	-30° to +70°C [-22° to +158°F]						
Humidity	45 to 85% RH (within -5	° to 40°C [23° to 104°F]					
Degree of protection	IP00	IP54					

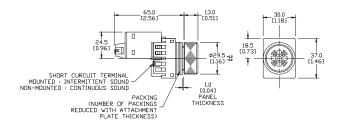
Current Consumption						
24V AC/DC	24V AC/DC 40mA AC, 25mA DC					
110VAC	30mA AC					

Dimensions mm [in]

DR22B8-EB

M3.5 TERMINAL SCREW 10.041 10.731 10.733 1

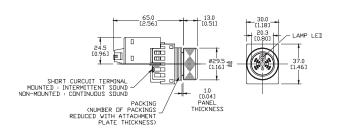
DR22B8-HB



DR22B5-EB

M3.5 TERMINAL SCREV C1.991 M3.5 TERMINAL SCREV C1.991 C1.991 C1.191 C1.1

DR22B5-HB



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Fuji Electric Accessories for 22mm **Command Series Pilot Devices**



Contact Blocks for Command Series 22mm Pilot Devices							
Part Number Qty Price Contacts Color							
AR9B290	1	\$5.00	NO	Blue			
AR9B291	1	\$5.00	NC	Red			

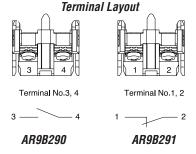
Max 6 contacts for non-illuminated momentary devices. Max 4 for alternate action non-illuminated devices.

Max 5 contacts for illuminated momentary devices. Max 3 for alternate action illuminated devices.

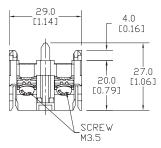
*Exceeding the maximum number of contacts could affect the mechanical durability of the operators.

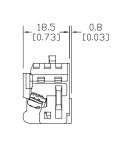
AR9B290





Dimensions mm [in]







APX510-24R

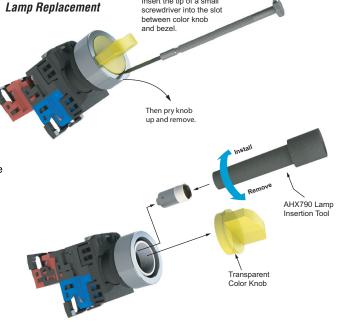
LED Bulbs for Command Series 22mm Pilot Devices										
Part Number	Color	Qty	Price	Use With	Lamp Voltage	Current Consumption	Power Consumption	Lamp Durability		
APX510-24R	Red	2	\$13.00							
APX510-24G	Green	2	\$13.00							
APX510-24Y	Yellow	2	\$13.00	AR22 / DR22 Series		AR22 / DR22 Series	24V AC/DC	12mA AC 11mA DC	0.8 W	30,000h
APX510-24S	Blue	2	\$50.00	00.100						
APX510-240	Orange	2	\$13.00							
*Lamp base: Ba9s/	/13									

Estimated durability for LED lamps Absolute brightness Durability judgement line Rated voltage Rated voltage×1.1 5 10 0.1 0.2 0.5 Time×10³[h]

Notes: • Durability at Ta=25°C

· Durability is affected by temperature, humidity, and

voltage fluctuation.



Insert the tip of a small

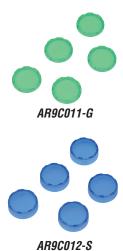
For Fuji Electric Accessories for 22mm Command Series Pilot Devices



AR9C016-R

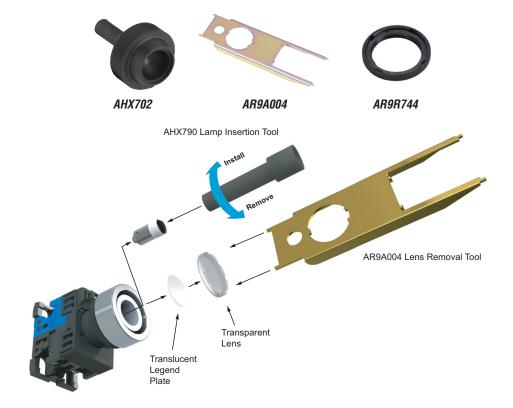


Lenses for Co	ommand Se	ries 22r	nm Illumi	nated Pushbuttons
Part Number	Color	Qty	Price	Use With
AR9C016-R	Red	5	\$4.00	AR22MOL, AR22M5L
AR9C021-R	Red	5	\$12.00	AR22VOR, AR22VOL
AR9C011-R	Red		\$2.00	
AR9C011-G	Green		\$2.00	
AR9C011-Y	Yellow	5	\$2.00	AR22F0L AR22F5L
AR9C011-S	Blue		\$2.00	
AR9C011-C	Clear		\$2.00	
AR9C012-R	Red		\$2.00	
AR9C012-G	Green		\$2.00	
AR9C012-Y	Yellow	5	\$2.00	AR22EOL
AR9C012-S	Blue		\$2.00	
AR9C012-C	Clear		\$2.00	





Tools and Lock Nut for Use with Command Series 22mm Pilot Devices						
Part Number Qty Price Description						
AHX790	1	\$3.00	Bulb removal tool			
AHX702	1	\$5.00	Wrench/lamp removal tool			
AR9A004	1	\$4.00	Wrench			
AR9R744	5	\$2.00	Lock nut			



tPIL-114 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Fuji Electric Command Series 22mm **Pilot Devices Specifications**

	Specifications	(indoor use)			
	Pushbuttons Emergency stop pushbuttons Selector switches	Joysticks	Pilot Lights		
Rated thermal current (contact block)	A600 / P600	_	_		
Mechanical durability	See durability table below	250,000 operations	_		
Electrical durability	500,000 operations at 220V AC 6A 1 million operations at 220V AC 3A	100,000 operations at 220V AC 1A (Res. load)	-		
Operating frequency	1200 operations/hour (On-load factor: 40%)	_		
Operating force (Avg)	9N – Pushbuttons 30-45 N – Emergency stop pushbuttons 0.15 - 0.1 N⋅m – Selector switches	Less that	an 100N		
Positive opening operation		corporating a N.C. contact are positive-openi	ng operation.		
Dielectric strength	2,500VAC, 1 minute (w/o transformer 2000VAC)	2000VAC, 1 minute (Pilot light with	h transformer: 2500 VAC, 1minute)		
Insulation resistance		$100 \text{M}\Omega$ or more (500VDC megger)			
Rated impulse dielectric strength	6kV	_	6kV		
Conditional short-circuit current	1000	DA .	_		
Short-circuit protective device	Fuse 15A (recommended, not supplied)	Fuse 1A (recommended, not supplied)	_		
Pollution degree		3			
Vibration	Resonance: 10 to 55Hz, doub	le amplitude 0.1 mm* / Constant: 16.7	plitude 0.1 mm* / Constant: 16.7 Hz, double amplitude 3mm		
Shock	Malfunction durability: 100 m/s ² ** /	Mechanical durability: 500 m/s ²	Mechanical durability: 500 m/s ²		
Ambient temperature (no condensation or no icing)	-20° to +70°C [-4° to +158°F] Illuminated type: -20° to -50°C [-4° to -58°F]	-5° to +60°C [+23° to +140°F]	-20° to +50°C [-4° to +122°F]		
Temperature ratings		Storage: -40° to +80°C [-40° to +176°F]			
Humidity		45 to 85% RH (within -5° to +40°C)			
Degree of protection		IP65			
Initial contact resistance	≤ 50mΩ	_	_		
Terminal markings	IEC 60445	_	_		
Connections	AWG 18 to AWG 14; Stripping length	n: 8mm to 11mm / Tightening torque: 0.	8 to 1.0 N·m, 7.1 in·lb to 8.8 in·lb		
Contacts operation	Self-	cleaning types. Slow action. Positive openin	g.		
Operation frequency	1,200 cycle/hour (Application ratio 40%)	_	_		
Utilization category/contact ratings	AC-15: 24VAC at 6A, 110VAC at 6A DC-13: 24VDC at 4A, 110VDC at 1.3 A	AC-1: 110VAC at 0.3 A DC-13: 24VDC at 0.7 A, 110VDC at 0.15 A	_		
Rated insulation voltage	600V AC/DC***	250V AC/DC	250V AC/DC (w/transformer 600VAC)		
Materials	Encl	osure: Polyamide / Contacts: silver, nick	rel		
Standards	UL	508, CSA C22.2, No.14, TUV - EN60947-5-	1		
Approvals		UL file E44592, CSA file LR20479			

^{*} Emergency stop type: 10 to 500 Hz, double amplitude 0.7mm(acceleration 50m/s²), according to test condition of EN60947-5-5 (1998)

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

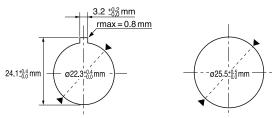
Mechanical Durability				
		Operations		
Pushbutton switch Illuminated pushbutton switch E-stop pushbutton switch E-stop illuminated pushbutton	Momentary action Alternate action Push-lock, turn-reset Push-lock, pull-reset	5 million 1 million 100,000 30,000		
Selector switch	Maintained 1, 2, 3, 4-contact Maintained 5, 6-contact Spring return, spring/manual return	1 million 500,000 200,000		
Illuminated selector switch	Maintained Without transformer 1, 2, 3-contact 4-contact With transformer 1, 2-contact 3-contact Spring return, spring/manual return	1 million 500,000 1 million 500,000 200,000		

Note: Key insertion/removal durability for selector switch key types

• Key type 10,000

22mm Pilot Devices Cutouts

AR22 pilot devices can be mounted in either 22.3 or 25.5 mm diameter holes as shown in the figure below without any extra adapter.



Note: If key washer or legend plate is not used, 3.2 mm-wide location holes do not need be be cut out.

^{**} Emergency stop type: 150 m/s²

^{***} Iluminated type without transformer

F- Fuji Electric Command Non-Illuminated **30mm Metal Pushbuttons**

Non-Illuminated metal mushroom-style pushbuttons

These pushbuttons feature large 65mm diameter plastic actuator and mount in standard 30.5 mm hole. All pushbuttons include operator, support base and contact block(s).

All switches in this series use replacement contact block AR9B290 (Blue, NO) or AR9B291 (Red, NC), sold separately in packages of one.

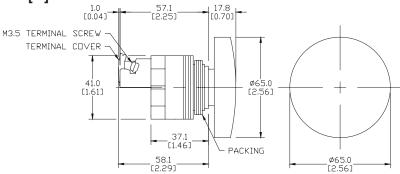


AR30B0R-10G

Command Non-Illuminated 30mm Metal Pushbuttons						
Part Number	Color	Price	Operator	Material	Contacts	
AR30B0R-10G	Green	\$20.50			NO	
AR30B0R-10B	Black	\$20.50		metal	NO	
AR30B0R-10Y	Yellow	\$20.50	momentary 65mm giant mushroom head		NO	
AR30B0R-01R	Red	\$20.50			NC	
AR30B0R-11G	Green	\$26.50			1 NO + 1 NC	
AR30B0R-11B	Black	\$26.50			1 NO + 1 NC	
AR30B0R-11Y	Yellow	\$26.50			1 NO + 1 NC	
AR30B0R-11R	Red	\$26.50			1 NO + 1 NC	

Dimensions

mm [in]



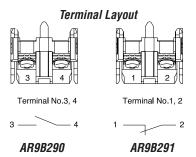
Contact Blocks



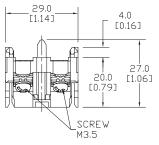
ARS	9B290

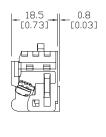
Contact Blocks for Command Series 30mm Pushbuttons				
Part Number	Qty	Price	Color	Contacts
AR9B290	1	\$5.00	Blue	NO
AR9B291	1	\$5.00	Red	NC

AR9B291



Dimensions mm [in]





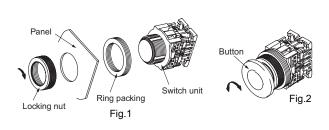
Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

Fuji Electric Command Series 30mm **Pilot Devices Specifications**

Assembly information

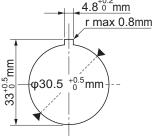
These pushbuttons are supplied with the appropriate contact blocks, unless otherwise indicated. Use these drawings as a guide to make sure there is adequate clearance behind the panel. Insert the switch unit in the panel hole at the back of the panel and secure it with a locking nut at the panel front.

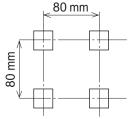


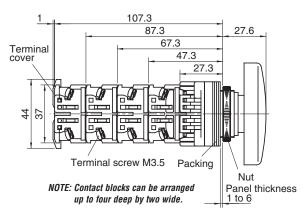
Panel holes

For safe operation, use these mounting hole drawings to ensure that there is adequate space between switches. Note: Location hole 4.8mm x 33mm is for use with a key washer









Dimensions are in millimeters.



Normally Closed

Physical Specifications				
Standards Reference	UL 508, CSA C22.2, No.14, TUV - EN60947-5-1			
Approvals	UL file E44592, CSA file LR20479			
Enclosure Material	Polyamide			
Contacts Material	Silver, nickel			
Protection Degree	IEC IP65			
Temperature Ratings	Storage: -40°C to 80°C (-40°F to 176°F) Operating: -20°C to 70°C (-4°F to 158°F)			
Working Positions	All working positions are allowed.			
Mechanical Life	5 million operations			
Positive Opening Operation	All functions incorporating an N.C. contact are positive-opening operation.			
Operating Force	75N max			

Electrical Specifications				
Rated Thermal Current (contact block)	A600 P600			
Rated Insulation Voltage	600V AC/DC			
Dielectric Strength	2,500VAC, 1 minute			
Insulation Resistance	$100M\Omega$ or more			
Initial Contact Resistance	≤ 50mΩ			
Short-Circuit Protection*	Fuse (rated current 15A).			
Terminal Markings	IEC 60445			
Connections	AWG 18 to AWG 14; Stripping length: 9mm to 11mm Tightening torque: 0.8 to 1.0 N·m, 7.1 in·lb to 8.8 in·lb			
Contacts Operation	Self-cleaning types. Slow action. Positive opening.			
Operation Frequency	1,200 cycle/hour (Application ratio 40%)			
Utilization Category	AC-15: 24VAC at 6A, 110VAC at 6A DC-13: 24VDC at 4A, 110VDC at 1.3 A			

*Note: Recommended, not supplied

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

KILLARK Hazardous Location Controls FXCS Series Factory Sealed Controls Overview

Applications, Features, Listings, and Electrical Ratings









Applications

Factory sealed pushbutton stations, selector switches and pilot lights are used to prevent the igniting of external hazardous atmospheres by the enclosed arcing devices in such areas as:

- Hazardous locations due to the presence of flammable gases or vapors, combustible dusts or easily ignitable fibers or flyings
- Installations at petroleum refineries, chemical and petrochemical plants and other processing or storage facilities where similar hazards exist
- Use in conjunction with magnetic starters or contactors for remote control of motors

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA



Features

- Eliminates external sealing requirements
- · Lower installation cost
- NEMA 3 weatherproof
- Color coded wiring
- More wiring space for easier field installation
- Stainless steel captive screws for cover assembly
- Ground boss for grounding in the splice box
- Cast conduit hubs 1/2", 3/4" and 1" NPT either dead end or feed through standard in both single and two-gang assemblies
- Pushbutton, selector switches and pilot light bodies are copper-free aluminum
- Operating shaft in both pushbuttons and selector switches are stainless steel
- Miniature and standard size pushbuttons. (miniature 3/4" overall diameter, standard 1 3/8" overall diameter)

Factory sealed devices eliminate the need for external sealing. The difference is the use of a sealing plate between the arcing device and the junction box. The sealing plate confines ignited gases, vapors, flames, or dust to the arcing device chamber, preventing them from traveling through the conduit system. Accurately ground flanges on both sides of the sealing plate provide flame-tight joints. Factory poured seals around the wiring pigtails ensure safe sealing.

Contact Specifications

All contacts are break before make. Replacement contacts are not availble for any of our Killark hazardous duty controls.

AC Ratings						
Current	120 VAC	240 VAC	480 VAC	600 VAC		
Inrush	60	30	15	12		
Breaking	6	3	1.5	1.2		
Carrying	10	10	10	10		

DC Ratings (Max. Amps)					
Current 125 VDC 250 VDC					
Inrush	0.55	0.275			
Breaking	0.55	0.275			
Carrying	2.50	2.5			

FXCS Specifications					
Dielectric Strength 2.5 kV (1 minute)					
Electrical Endurance	5 million operations at rated load				
Operating Frequency	3,000 per hour				
Mechanical Endurance	Momentary: 5 x 10 ⁶ Push-pull and selector: 2 x 10 ⁶				
LED Consumption	4-6 mA at 110 to 130 VAC/VDC				
Wire Leads	6.5 inches, 18 AWG				
Operating Temperature	-4° to 104°F (-20° to 40°C)				
Device Bodies and Covers Materials	Copper-free Aluminum				
Cover Bolts Material	1/4-20 x 1.10 inch Stainless Steel				
Cover Tightening	After tightly attaching cover to device box, check with a 0.0015 inch feeler gauge; it shoud enter gap more than 1/8 inch.				

tPIL-118 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK FXB Series Factory Sealed Splice/Device Boxes for FXCS Series **Cover Assemblies**









FXB-2 **Dead End**

FXB-5 **Feed Through**

FXB-8 **Double Gang Dead End**

FXB-11 **Double Gang Feed Through**

Features

Splice Boxes

The FXB series of splice boxes are designed for use with the FXCS series cover sub-assemblies.

Listings

- UL Listed; File E53360
- · Class I, Div. 1 & 2, Groups C, D
- Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





FXE	FXB Splice/Device Box Selection and Dimensions				
Part Number	Price	Description	NPT Hub Size (inches)		
FXB-1	\$44.00	Single gang / Dead-end	1/2		
FXB-2	\$44.00	Single gang / Dead-end	3/4		
FXB-3	\$47.00	Single gang / Dead-end	1		
FXB-4	\$47.00	Single gang / Feed-through	1/2		
FXB-5	\$47.00	Single gang / Feed-through	3/4		
FXB-6	\$44.00	Single gang / Feed-through	1		
FXB-7	\$72.00	Double gang / Dead-end	1/2		
FXB-8	\$74.00	Double gang / Dead-end	3/4		
FXB-9	\$72.00	Double gang / Dead-end	1		
FXB-10	\$68.00	Double gang / Feed-through	1/2		
FXB-11	\$77.00	Double gang / Feed-through	3/4		
FXB-12	\$76.00	Double gang / Feed-through	1		

KILLARK FXCS Series Factory Sealed Control Station Cover Assemblies







Double Pushbutton



Pilot Light

Features

These pushbutton assemblies include the cover and the pushbutton device. An FXB splice/device box is required.

Listings

- UL Listed; File E53360
- · Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





FXCS Momentary Contact Single Pushbutton					
Part Number (Includes cover with device) Price Description Diagram Pushbutton Color Marking*					Legend Plate Marking*
FXCS-0B1	\$191.00	1 N.O. momentary operator	• •	Green	"START"
FXCS-0B2	\$191.00	1 N.C. momentary operator	<u>• •</u>	Red	"STOP"
FXCS-0B3	\$216.00	1 N.O. / 1 N.C. momentary operator	•	Black	Blank plate

FXCS Momentary Contact Double Pushbutton						
Part Number (Includes cover with device)	Price	Description	Diagram	Button Color	Legend Plate Marking*	
FXCS-0B4	\$249.00	Green operator has 1 N.O. momentary contact and red operator has 1 N.C. momentary contact	<u></u>	Green / Red	"START STOP"	
FXCS-0B4U	\$266.00	Each operator has 1 N.O. and 1 N.C. momentary contact		Green / Red	"START STOP"	
FXCS-0B5	\$249.00	Each operator has 1 N.O. momentary contact	<u></u>	Green / Green	"START START"	
FXCS-0B7	\$266.00	Each operator has 1 N.O. and 1 N.C. momentary contact	• • • •	Black / Black	Two blank plates	

	FXCS Pilot Light										
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Lens Color	Legend Plate Marking*					
FXCS-0B24ALD	\$252.00	Single pilot light	(110 VAC/VDC	Amber	Blank plate					
FXCS-0B24CLD	\$237.00	Single pilot light	(110 VAC/VDC	Clear	Blank plate					
FXCS-0B24GLD	\$207.00	Single pilot light		110 VAC/VDC	Green	Blank plate					
FXCS-0B24RLD	\$207.00	Single pilot light	(110 VAC/VDC	Red	Blank plate					

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

tPIL-120 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK FXCS Series Factory Sealed Control Station Cover Assemblies



Double Pilot

Light







Maintained **Pushbutton**

Pilot Light / Pushbutton

Pilot Light / Two **Mini Pushbutton**

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





			FXCS Double Pilo	t Light		
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Lens Colors	Legend Plate Marking*
FXCS-0B30ALD	\$308.00	Two pilot lights	4	110 VAC/VDC	Amber / Amber	Two blank plates
FXCS-0B30CLD	\$308.00	Two pilot lights	-	110 VAC/VDC	Clear / Clear	Two blank plates
FXCS-0B30GLD	\$308.00	Two pilot lights	4	110 VAC/VDC	Green / Green	Two blank plates
FXCS-0B30RLD	\$308.00	Two pilot lights	4	110 VAC/VDC	Red / Red	Two blank plates
FXCS-0B30RLD-GLD	\$308.00	Two pilot lights	4	110 VAC/VDC	Red / Green	Two blank plates

	FXCS Momentary Contact Pushbutton and Pilot Light												
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Pushbutton Color	Lens Color	Legend Plate Marking*						
FXCS-0B13-CD	\$237.00	1 N.C. momentary operator and pilot light	•1•	110 VAC/VDC	Red	Clear	Pushbutton: "STOP" Pilot light: Blank plate						
FXCS-0B13-OD	\$270.00	1 N.O. momentary operator and pilot light	<u></u>	110 VAC/VDC	Green	Red	Pushbutton: "START" Pilot light: Blank plate						
FXCS-0B13-UD	\$270.00	1 N.O. / 1 N.C. momentary operator and pilot light		110 VAC/VDC	Black	Red	Two blank plates						

	FXCS Two Mini Momentary Contact Pushbuttons and Pilot Light										
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Pushbutton Colors	Lens Color	Legend Plate Marking*				
FXCS-0A15D	\$347.00	Mini red operator with 1 N.C. momentary contact and mini green operator with 1 N.O. momentary contact, and pilot light	<u> </u>	110 VAC/VDC	Green Red	Red	N.O. Pushbutton: "START" N.C. Pushbutton: "STOP" Pilot light: Blank plate				

	FXCS Maintained Contact Push-Pull Mushroom Pushbutton											
Part Number (Includes cover with device)	Price	Description	Diagram	Pushbutton Color	Legend Plate Marking*							
FXCS-OMMG3	\$479.00	1 N.O. / 1 N.C. push-pull maintained	<u>•</u> •	Green	Three 2-sided legend plates included: "START / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"							
FXCS-0MMR3	\$479.00	1 N.O. / 1 N.C. push-pull maintained	• •	Red	Three 2-sided legend plates included: "START / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"							
FXCS-OMMK3	\$479.00	1 N.O. / 1 N.C. push-pull maintained	• •	Black	Three 2-sided legend plates included: "START / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"							

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

KILLARK FXCS Series Factory Sealed Control Station Cover Assemblies and Selector Switches







Key-Operated Selector Switch

Listings

- UL Listed; File E53360
- · Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





	FXCS Two-Position Maintained Contact Selector Switches												
Part Number (Includes cover with device) Price Description Left Position Left Position Right Position Right Position Right Contact Right Right Contact Right Right Contact Right Righ													
FXCS-0S2A1	\$218.00	1 N.O. / 1 N.C.	• •	<u>• •</u>	• •	• •	Black	"OFF ON""					
FXCS-0S2A5	\$252.00	2 N.O. / 2 N.C.	• •	• •	• •	• •	Black	"OFF ON""					

	FXCS Two-Position Key-Operated Maintained Contact Selector Switches													
Part Number (Includes cover with device)	Price	Ce Description Left Position Left Position Right Position Right Position Right Position Right Contact Right Right Contact Right Ri												
FXCS-0K2A1A	\$271.00	1 N.O. / 1 N.C.	• •	• •	• •	<u>• •</u>	Key may be removed in all positions	"OFF ON"						
FXCS-0K2A5A	\$304.00	2 N.O. / 2 N.C.	• •	•	• •	• • • •	Key may be removed in all positions	"OFF ON"						

	FXCS Three-Position Maintained Contact Selector Switches											
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Knob Color	Legend Plate Marking*		
FXCS-0S3C4	\$229.00	1 N.O. / 1 N.C.		• •	<u></u>	• •	••	<u>• •</u>	Black	"HAND OFF AUTO"		
FXCS-0S3C5	\$257.00	2 N.O. / 2 N.C.	• •	• •	<u>• •</u>	• •	<u>• •</u>	• •	Black	"HAND OFF AUTO"		

	FXCS Three-Position Key-Operated Maintained Contact Selector Switches											
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Key	Legend Plate Marking*		
FXCS-0K3C4A	\$284.00	1 N.O. / 1 N.C.	• •	• •	• •	• •	••	<u>• •</u>	Key may be removed in all positions	"HAND OFF AUTO"		
FXCS-0K3C5A	\$308.00	2 N.O. / 2 N.C.	• •	•	• •	• •	• •	• •	Key may be removed in all positions	"HAND OFF AUTO"		

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

tPIL-122 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK FXCS Series Factory Sealed Control Station Cover Assemblies and Selector Switches - Continued





Selector Switch

Key-Operated Selector Switch

	FXCS Two-Position Spring Return Selector Switch									
Part Number (Includes cover with device) Price Description Left Position Left Position Right Position Right Position Legend Plate Left Contact Right Right Contact Right Right Contact Right										
FXCS-0S2L3F	\$262.00	1 N.O. / 1 N.C., spring return from right	••	• •	• •	• •	"OFF" / "ON""			

	FXCS Two-Position Key-Operated Spring Return Selector Switches											
Part Number (Includes cover with device) Left Position Left Position Right Position Right Position Right Contact Right Right Contact Right Right Contact Right Righ												
FXCS-0K2L3F22A	\$371.00	1 N.O. / 1 N.C., spring return from right	<u> </u>	• •	• •	• •	Key may be removed in left position only	"OFF" / "ON""				

	FXCS Three-Position Spring Return Selector Switches											
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Knob Color	Legend Plate Marking*		
FXCS-0S3M6G	\$262.00	2 N.O., spring return to center from left or right	•••		• •	• •		••	Black	"HAND OFF AUTO"		
FXCS-0S3L6G	\$262.00	2 N.O., spring return to center from right, maintained in center and left	<u></u>			<u> </u>	<u></u>	•••	Black	"HAND OFF AUTO"		
FXCS-0S3R6G	\$262.00	2 N.O., spring return to center from left, maintained in center and right	<u> </u>	<u> </u>	• •	• •	• •	• •	Black	"HAND OFF AUTO"		

	FXCS Three-Position Key-Operated Spring Return Selector Switches										
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Key	Legend Plate Marking*	
FXCS-0K3M6G32A	\$371.00	2 N.O., spring return to center from left or right	• •	• •		• •	• •	• •	Key may be removed in center position only	"HAND OFF AUTO"	
FXCS-0K3L6G32A	\$371.00	2 N.O., spring return to center from right, maintained in center and left	• •	• •	••	<u></u>	••	• •	Key may be removed in center position only	"HAND OFF AUTO"	
FXCS-0K3R6G32A	\$371.00	2 N.O., spring return to center from left, maintained in center and right	• •	<u></u>	• •		• •	<u></u>	Key may be removed in center position only	"HAND OFF AUTO"	

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

KILLARK SWB/XCS Series Control Stations Overview - External Sealing Required













Listings

- UL Listed; File E53360
- · Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- Class II
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





Applications

- Hazardous locations due to the presence of flammable gases or vapors, combustible dusts or easily ignitable fibers or flyings
- Installations at petroleum refineries, chemical and petrochemical plants and other processing or storage facilities where similar hazards exist
- Use in conjunction with magnetic starters or contactors for remote control of motors

Features

- Device bodies and covers are cast copper-free Aluminum alloy and provide a wide assortment for custom assemblies
- Cast conduit hubs, 3/4", either dead end or feed through standard in both single and two-gang device bodies
- Ground flange joint between bolted cover and box provide required flame path
- Pushbutton, selector switches and pilot light bodies are copper-free aluminum
- Operating shaft in both pushbuttons and selector switches are stainless steel
- Open space between gangs for easy wiring from one cover to another
- Miniature and standard size pushbuttons. (miniature 3/4" overall diameter, standard 1 3/8" overall diameter)
- · Internal ground screw

Contact Specifications

All contacts are break before make. Replacement contacts are not availble for any of our Killark hazardous duty controls.

AC Ratings									
Current	120 VAC	240 VAC	480 VAC	600 VAC					
Inrush	60	30	15	12					
Breaking	6	3	1.5	1.2					
Carrying	10	10	10	10					

DC Ratings (Max. Amps)							
Current	125 VDC	250 VDC					
Inrush	0.55	0.275					
Breaking	0.55	0.275					
Carrying	2.50	2.5					

X	CS Specifications			
Dielectric Strength	2.5 kV (1 minute)			
Electrical Endurance	5 million operations at rated load			
Operating Frequency	3,000 per hour			
Mechanical Endurance	Momentary: 5 x 10 ⁶ Push-pull and selector: 2 x 10 ⁶			
LED Consumption	4-6 mA at 110 to 130 VAC/VDC			
Electrical Connections	14 to 20 AWG max., solid or stranded			
Terminal Torque	1.8 Nm (15.75 in-lbs)			
Lamp Connections	9 inch leads, 18 AWG			
Operating Temperature	-4° to 104°F (-20° to 40°C)			
Device Bodies and Covers Materials	Copper-free Aluminum			
Cover Bolts Material	1/4-20 x 7/8 inch Stainless Steel			
Bolt Tightening Torque	After tightly attaching cover to device box, check with a 0.0015 inch feeler gauge; it should not enter the flame path joint more than 1/8 inch.			

tPIL-124 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK SWB Series Splice/Device Boxes For Use With XCS Cover Assemblies







SWB-11

SWB-42

SWB Device Bodies							
Part Number	Part Number Price Description						
SWB-2	\$40.00	Single gang / Dead-end	3/4				
SWB-5	\$41.00	Single gang / Feed-through	3/4				
SWB-8	\$78.00	Double gang / Dead-end	3/4				
SWB-11	\$79.00	Double gang / Feed-through	3/4				
SWB-42	\$103.00	Single gang / Dead-end / Deep style	3/4				
SWB-45	\$127.00	Single gang / Feed-through / Deep style	3/4				

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11712
- · Class I, Zones 1 & 2, Groups IIB, IIA





KILLARK XCS Series Cover Assemblies and Control Stations - Pushbuttons

Pushbuttons and Pushbutton/Pilot Light Assemblies







Double Pushbutton



Push-Pull Mushroom Maintained Pushbutton

Listings

- UL Listed; File E53360
- · Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





XCS Momentary Contact Single Pushbutton								
Part Number (Includes cover with device) Price Description Diagram Pushbutton Color Marking								
XCS-0B1	\$129.00	1 N.O. momentary	• •	Green	"START"			
XCS-0B2	\$129.00	1 N.C. momentary	<u>• •</u>	Red	"STOP"			
XCS-0B3	\$152.00	1 N.O. / 1 N.C. momentary	• •	Black	Blank plate			

XCS Momentary Contact Double Pushbutton								
Part Number (Includes cover with device)	Price	Description Diagra		Pushbutton Colors	Legend Plate Marking*			
XCS-0B4	\$168.00	Green operator has 1 N.O. momentary contact and red operator has 1 N.C. momentary contact		Green Red	"START STOP"			
XCS-0B4-U	\$217.00	Each operator has 1 N.O. and 1 N.C. momentary contact	•	Green Red	"START STOP"			
XCS-0B5	\$168.00	Each operator has 1 N.O. momentary contact	<u></u>	Green Green	"START START"			
XCS-0B7	\$217.00	Each operator has 1 N.O. and 1 N.C. momentary contact		Black Black	Two blank plates			

	XCS Maintained Contact Push-Pull Mushroom Pushbutton									
Part Number (Includes cover with device)	Price	Description	Diagram	Pushbutton Color	Legend Plate Marking*					
XCS-OMMG3	\$413.00	1 N.O. / 1 N.C. push-pull maintained	• •	Green	Three 2-sided legend plates included: "STOP / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"					
XCS-0MMR3	\$413.00	1 N.O. / 1 N.C. push-pull maintained	• •	Red	Three 2-sided legend plates included: "STOP / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"					
XCS-OMMK3	\$413.00	1 N.O. / 1 N.C. push-pull maintained	• •	Black	Three 2-sided legend plates included: "STOP / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"					

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

tPIL-126 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK XCS Series Control Station Cover Assemblies - Pilot Lights









Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA

Pilot Light

Double Pilot Light

Pilot Light / Pushbutton

Pilot Light / Two Mini Pushbutton



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XCS Pilot Light									
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Lens Color	Legend Plate Marking			
XCS-0B24ALD	\$165.00	Single pilot light		110 VAC/VDC	Amber	Blank plate			
XCS-0B24CLD	\$165.00	Single pilot light		110 VAC/VDC	Clear	Blank plate			
XCS-0B24GLD	\$165.00	Single pilot light		110 VAC/VDC	Green	Blank plate			
XCS-0B24RLD	\$165.00	Single pilot light		110 VAC/VDC	Red	Blank plate			

	XCS Double Pilot Light									
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Lens Colors	Legend Plate Marking				
XCS-0B30ALD	\$249.00	Two pilot lights		110 VAC/VDC	Amber Amber	Two blank plates				
XCS-0B30CLD	\$243.00	Two pilot lights		110 VAC/VDC	Clear Clear	Two blank plates				
XCS-0B30GLD	\$243.00	Two pilot lights	• •	110 VAC/VDC	Green Green	Two blank plates				
XCS-0B30RLD	\$243.00	Two pilot lights	• •	110 VAC/VDC	Red Red	Two blank plates				
XCS-0B30RLD-GLD	\$243.00	Two pilot lights	• •	110 VAC/VDC	Red Green	Two blank plates				

XCS Momentary Contact Pushbutton and Pilot Light									
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Pushbutton Color	Lens Color	Legend Plate Marking		
XCS-0B13-CD	\$172.00	1 N.C. momentary operator and pilot light	•1•	110 VAC/VDC	Red	Clear	Pushbutton: "STOP" Pilot light: Blank plate		
XCS-0B13-0D	\$172.00	1 N.O. momentary operator and pilot light	<u>+••</u>	110 VAC/VDC	Green	Red	Pushbutton: "START" Pilot light: Blank plate		
XCS-0B13-UD	\$215.00	1 N.O. / 1 N.C. momentary and pilot light	<u> </u>	110 VAC/VDC	Black	Red	Two blank plates		

	XCS Two Mini Momentary Contact Pushbuttons and Pilot Light								
Part Number (Includes cover with device)	Price	Description	Diagram	LED Voltage	Pushbutton Colors	Lens Color	Legend Plate Marking		
XCS-0A15D	\$272.00	Mini red operator with 1 N.C. momentary contact and mini green operator with 1 N.O. momentary contact, and pilot light	<u>_</u> • • • •	110 VAC/VDC	Green Red	Red	N.O. Pushbutton: "START" N.C. Pushbutton: "STOP" Pilot light: Blank plate		

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

KILLARK XCS Series Cover Assemblies and Control Stations - Selector Switches







Key-Operated Selector Switch

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





	XCS Two-Position Maintained Contact Selector Switches								
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Right Position Left Contact	Right Position Right Contact	Knob Color	Legend Plate Marking*	
XCS-0S2A1	\$168.00	1 N.O. / 1 N.C.	• •	• •		• •	Black	"OFF ON"	
XCS-0S2A5	\$221.00	2 N.O. / 2 N.C.	•	• •	• •	• •	Black	"OFF ON"	

	XCS Two-Position Key-Operated Maintained Contact Selector Switches								
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact		Right Position Left Contact	Right Position Right Contact	Key	Legend Plate Marking*	
XCS-0K2A1A	\$208.00	1 N.O. / 1 N.C.		• •	<u> </u>	<u>• •</u>	Key may be removed in all positions	"OFF ON"	
XCS-0K2A5A	\$262.00	2 N.O. / 2 N.C.	-	•	• •		Key may be removed in all positions	"OFF ON"	

	XCS Three-Position Maintained Contact Selector Switches									
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Knob Color	Legend Plate Marking*
XCS-0S3C4	\$168.00	1 N.O. / 1 N.C.	<u></u>	• •	• •	<u>• •</u>	• •	<u>• •</u>	Black	"HAND OFF AUTO"
XCS-0S3C5	\$221.00	2 N.O. / 2 N.C.	• •	+	• •	• •	• •	• •	Black	"HAND OFF AUTO"

	XCS Three-Position Key-Operated Maintained Contact Selector Switches									
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Key	Legend Plate Marking*
XCS-0K3C4A	\$208.00	1 N.O. / 1 N.C.	••	• •	-	<u>• •</u>	• •	<u>• •</u>	Key may be removed in all positions	"HAND OFF AUTO"
XCS-0K3C5A	\$262.00	2 N.O. / 2 N.C.	• •	•	• •		• •	• •	Key may be removed in all positions	"HAND OFF AUTO"

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

tPIL-128 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK XCS Series Cover Assemblies and Control Stations - Selector Switches



Selector Switch

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- · Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





	XCS Two-Position Spring Return Selector Switch								
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Right Position Left Contact	Right Position Right Contact	Legend Plate Marking*		
XCS-0S2L3F	\$228.00	1 N.O. / 1 N.C., spring return from right; requires SWB series deep style splice/device box	• •	• •	• •	• •	"OFF ON"		

		XCS Thre	e-Position	Spring Re	turn Select	tor Switche	es			
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Knob Color	
XCS-0S3M6G	\$228.00	2 N.O., spring return to center from left and right; requires SWB series deep style splice/ device box	• •	• •	• •		••	••	Black	"HAND OFF AUTO"
XCS-0S3L6G	\$228.00	2 N.O., spring return to center from right, maintained in center and left; requires SWB series deep style splice/device box	<u> </u>	<u> </u>		••	<u></u>		Black	"HAND OFF AUTO"
XCS-0S3R6G	\$228.00	2 N.O., spring return to center from left, maintained in center and right; requires SWB series deep style splice/device box	<u></u>	• •			• •	• •	Black	"HAND OFF AUTO"

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

KILLARK XCS Series Cover Assemblies and Control Stations



Key-Operated Selector Switch

Listings

- UL Listed; File E53360
- · Class I, Div. 1 & 2, Groups C, D
- · Class II, Div. 1 & 2, Groups E, F, G
- Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- · Class I, Zones 1 & 2, Groups IIB, IIA





	XCS Two-Position Key-Operated Spring Return Selector Switches									
Part Number (Includes cover with device)	Price	Description		Left Position Right Contact	POSITION	Right Position Right Contact	Key	Legend Plate Marking*		
XCS-0K2L3F22A	\$228.00	1 N.O. / 1 N.C., spring return from right; requires SWB series deep style splice/device box	<u> </u>	• •	• •		Key may be removed in left position only	"OFF ON"		

		XCS Three-Posit	ion Key-O	perated Sp	oring Retu	rn Selecto	r Switches	5		
Part Number (Includes cover with device)	Price	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Key	Legend Plate Marking*
XCS-OK3M6G32A	\$228.00	2 N.O., spring return to center from left and right; requires SWB series deep style splice/device box	• •	••	• •	• •	••	• •		"HAND OFF AUTO"
XCS-0K3L6G32A	\$228.00	2 N.O., spring return to cen- ter from right, maintained in center and left; requires SWB series deep style splice/ device box	<u> </u>	• •	••	• •	• •	• •	Key may be removed in center position	"HAND OFF AUTO"
XCS-0K3R6G32A	\$228.00	2 N.O., spring return to center from left, maintained in center and right; requires SWB series deep style splice/device box	<u> </u>	• •	••	• •	•••	••	only	"HAND OFF AUTO"

^{*} We also offer a large selection of optional legend plates. See accessories later in this section.

tPIL-130 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK Accessories and Replacement Parts

Sealing Fitting

The purpose of seals in a Class I hazardous location is to minimize the passage of gases and vapors and prevent the passage of flames from one electrical installation to another through the conduit system. Consult the electrical code or your local inspector for more detailed information.



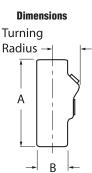
		ENT Sealing Fitting Dimensions									
Drico	Hub Size	Dimension	is (in-mm)	Turning							
TILE	(inches)	A	В	Radius*							
\$20.00	3/4	4-1/16 (103)	2-1/16 (52)	1-9/32 (33)							
_	rice	(inches)	Price (inches) A	Price (inches) A B							

*Use Turning Radius to help determine if sealing fitting will fit properly in your installation.

ENY-2 Sealing Fitting

ENY-2 Sealing Fitting

- Suitable for vertical or horizontal installation
- Copper-free aluminum (less than 0.4 %)
- Electrostatically applied powder coating



Sealing Compound and Packing Fiber





Sealing Compound

Packing Fiber

	Ounces Required per Fitting							
Sealing Fitting	Hub Size (inches)	Sealing Compound	Packing Fiber					
ENY-2	3/4	2 oz.	1/8 oz.					

Sealing Compound

SC series sealing compound is a cement used extensively for sealing conduit to prevent the spread of explosive gases.

- Non-shrinking and forms a secure seal
- Resists acids, water, oil, etc.
- UL listed when used with ENY series sealing fittings
- CE certified when used with any CSA certified sealing fitting

Packing Fiber

- Made from environmentally safe, non-asbestos material
- Easy to use and forms a positive dam to hold sealing compound

Sealing Compound							
Part Number Price Size							
SC-4-0Z	\$8.00	4 ounces					
SC-8-0Z \$8.00 8 ounces							
SC-1-LB	\$14.00	1 pound					

Packing Fiber				
Part Number	Price	Size		
PF-2	\$20.00	2 ounces		
PF-4	\$36.00	4 ounces		
PF-16	\$106.00	1 pound		

KILLARK Accessories and Replacement Parts - Continued

Accessories and Replacement Parts Overview

We offer an accessory blank cover, a large selection of legend plates, and replacement keys and LEDs.

Replacement contacts are not availble for any of our Killark hazardous duty controls. We also do not offer replacement switches, covers, or bolts.

Blank Cover and Replacement Key







KEY-C002B Replacement Key

Blank Cover and Replacement Key			
Part Number	Price	Description	
X-10	\$33.00	Blank cover for use with splice/device boxes.	
KEY-C002B	\$10.00	Replacement key for FXCS and XCS series key-operated selector switches.	

Replacement LED Lamps



Replacement 110 VAC/VDC LED lamps for FXCS and XCS series pilot lights.

Replacement LED Lamps					
Part Number	Price	Color	Volts AC/DC		
GOLED-A110	\$43.00	Amber			
GOLED-G110	\$43.00	Green	110 VAC/VDC		
GOLED-R110	\$43.00	Red			
GOLED-W110	\$43.00	White	1		

tPIL-132 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK Accessories - Legend Plates

Legend plates

- Engraved aluminum legend plates with red fields.
- Three screws included with each legend plate
- Use with XCS and FXCS series devices







XCSNP-HIGH-LOW

XCSNP-RESET

XCSNP-ON-OFF

Legend Plates			
Legend	Color of Field	Part Number	Price
Blank plate	Red	XCSNP-BLANK	\$10.00
"CLOSE"	Red	XCSNP-CLOSE	\$10.00
"DOWN"	Red	XCSNP-DOWN	\$10.00
"EMERG STOP"	Red	XCSNP-ESTOP	\$10.00
"FAST"	Red	XCSNP-FAST	\$10.00
"FORWARD"	Red	XCSNP-FORWARD	\$10.00
"HIGH"	Red	XCSNP-HIGH	\$10.00
"IN"	Red	XCSNP-IN	\$10.00
"INCH"	Red	XCSNP-INCH	\$10.00
"JOG"	Red	XCSNP-JOG	\$10.00
"JOG FWD"	Red	XCSNP-JOG-FORWARD	\$10.00
"JOG REV"	Red	XCSNP-JOG-REVERSE	\$10.00
"LOW"	Red	XCSNP-LOW	\$10.00
"LOWER"	Red	XCSNP-LOWER	\$10.00
"MOTOR RUN"	Red	XCSNP-MOTOR-RUN	\$10.00
"MOTOR STOP"	Red	XCSNP-MOTOR-STOP	\$10.00
"OFF"	Red	XCSNP-OFF	\$10.00
"ON"	Red	XCSNP-ON	\$10.00
"OPEN"	Red	XCSNP-OPEN	\$10.00
"OUT"	Red	XCSNP-OUT	\$10.00
"POWER ON"	Red	XCSNP-POWER-ON	\$10.00
"RAISE"	Red	XCSNP-RAISE	\$10.00
"READY"	Red	XCSNP-READY	\$10.00
"RESET"	Red	XCSNP-RESET	\$10.00
"REVERSE"	Red	XCSNP-REVERSE	\$10.00
"RUN"	Red	XCSNP-RUN	\$10.00
"SLOW"	Red	XCSNP-SLOW	\$10.00
"START"	Red	XCSNP-START	\$10.00
"STOP"	Red	XCSNP-STOP	\$10.00
"TEST"	Red	XCSNP-TEST	\$10.00

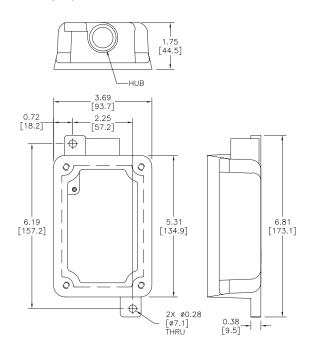
Legend Plates				
Legend	Color of Field	Part Number	Price	
"UP"	Red	XCSNP-UP	\$10.00	
"FWD REV"	Red	XCSNP-FWD-REV	\$10.00	
"HAND AUTO"	Red	XCSNP-HAND-AUTO	\$10.00	
"ON OFF"	Red	XCSNP-ON-OFF	\$10.00	
"OFF ON"	Red	XCSNP-OFF-ON	\$10.00	
"START STOP"	Red	XCSNP-START-STOP	\$10.00	
"UP DOWN"	Red	XCSNP-UP-DOWN	\$10.00	
"RUN JOG"	Red	XCSNP-RUN-JOG	\$10.00	
"JOG RUN"	Red	XCSNP-JOG-RUN	\$10.00	
"AUTO HAND"	Red	XCSNP-AUTO-HAND	\$10.00	
"MAN AUTO"	Red	XCSNP-MANUAL-AUTO	\$10.00	
"OFF REMOTE"	Red	XCSNP-OFF-REMOTE	\$10.00	
"START JOG"	Red	XCSNP-START-JOG	\$10.00	
"HIGH LOW"	Red	XCSNP-HIGH-LOW	\$10.00	
"OPEN CLOSE"	Red	XCSNP-OPEN-CLOSE	\$10.00	
"RAISE LOWER"	Red	XCSNP-RAISE-LOWER	\$10.00	
"SLOW FAST"	Red	XCSNP-SLOW-FAST	\$10.00	
"FWD OFF REV"	Red	XCSNP-FWD-OFF-REV	\$10.00	
"HAND OFF AUTO"	Red	XCSNP-HAND-OFF-AUT	\$10.00	
"RUN OFF JOG"	Red	XCSNP-RUN-OFF-JOG	\$10.00	
"REV OFF FWD"	Red	XCSNP-REV-OFF-FWD	\$10.00	
"AUTO OFF HAND"	Red	XCSNP-AUT-OFF-HAND	\$10.00	
"HAND OFF REMOTE"	Red	XCSNP-HAND-OFF-REM	\$10.00	
"1-0FF-2"	Red	XCSNP-1-0FF-2	\$10.00	
"JOG OFF RUN"	Red	XCSNP-JOG-OFF-RUN	\$10.00	
"STOP RUN START"	Red	XCSNP-STP-RUN-STRT	\$10.00	
"LOCAL OFF REM"	Red	XCSNP-LOCL-OFF-REM	\$10.00	
"LOW OFF HIGH"	Red	XCSNP-LOW-OFF-HIGH	\$10.00	
"RAISE OFF LOWER"	Red	XCSNP-RAS-OFF-LOWR	\$10.00	
"SLOW OFF FAST"	Red	XCSNP-SLOW-OFF-FST	\$10.00	

KILLARK Hazardous Location Controls - Dimensions

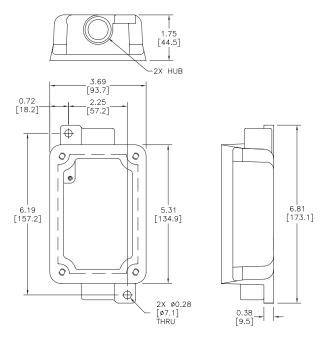
FXB Series Factory Sealed Splice/Device Boxes

Dimensions in inches [mm]

FXB-1, -2, -3



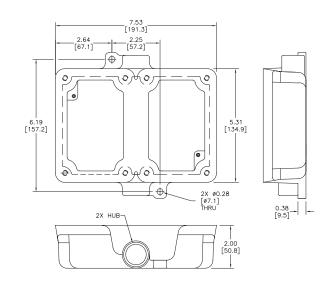
FXB-4, -5, -6



FXB-7, -8, -9

7.53 [191.3] 2.64 [67.1] (57.2] (67.1] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9] (134.9]

FXB-10, -11, -12



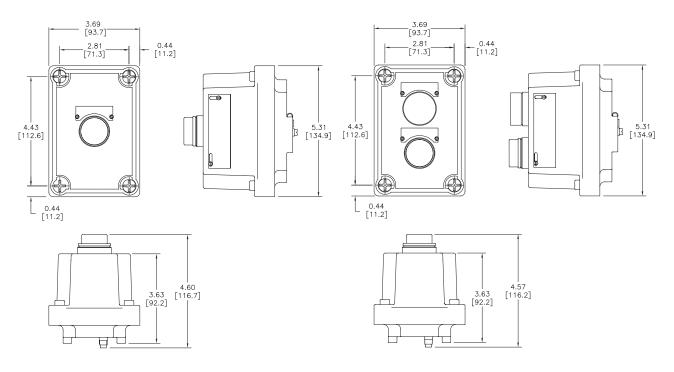
KILLARK Hazardous Location Controls

- Dimensions

FXCS Series Factory Sealed Cover Assemblies

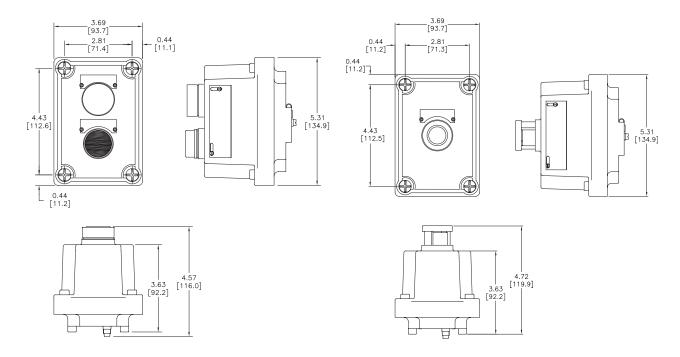
Dimensions in inches [mm] FXCS-0B1, -0B2, -B3

FXCS-0B4, -0B4U



FXCS-0B5, -0B7

FXCS-0B24ALD, -0B24CLD, -0B24GLD, -0B24RLD



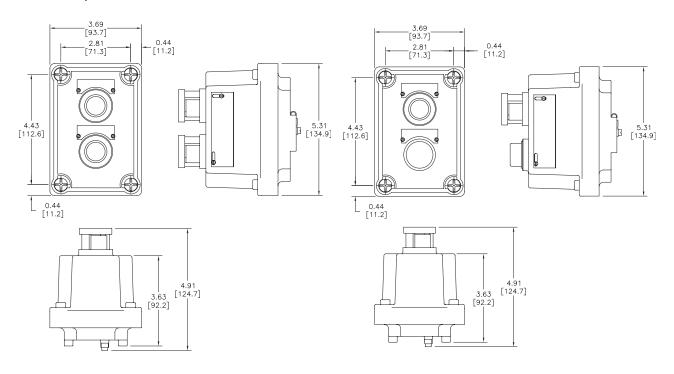
KILLARK Hazardous Location Controls - Dimensions

FXCS Series Factory Sealed Cover Assemblies

Dimensions in inches [mm]

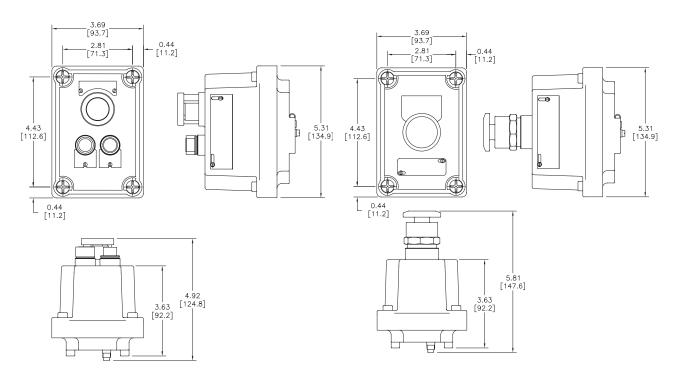
FXCS-0B30ALD, -0B30CLD, -0B30GLD, -0B30RLD, -0B30RLD-GLD

FXCS-0B13-CD, 0B13-OD, 0B13-UD



FXCS-0A15D

FXCS-0MMG3, -0MMR3, -0MMK3



tPIL-136 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK Hazardous Location Controls - Dimensions

FXCS Series Factory Sealed Cover Assemblies

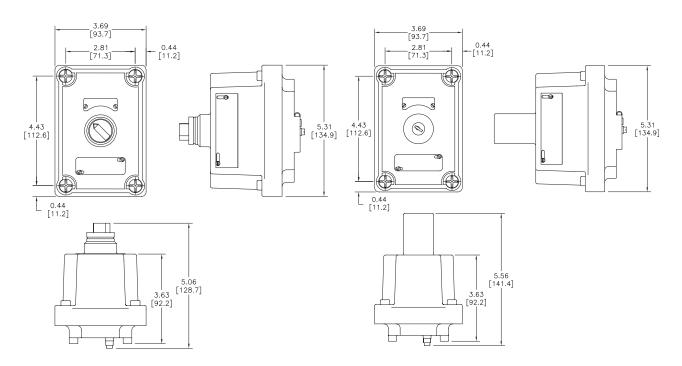
Dimensions in inches [mm]

FXCS-0S2A1, -0S2A5

FXCS-0K2A1A, -0K2A5A

FXCS-0S3C4, -0S3C5

FXCS-0K3C4A, -0K3C5A



KILLARK Hazardous Location Controls

- Dimensions

FXCS Series Factory Sealed Cover Assemblies

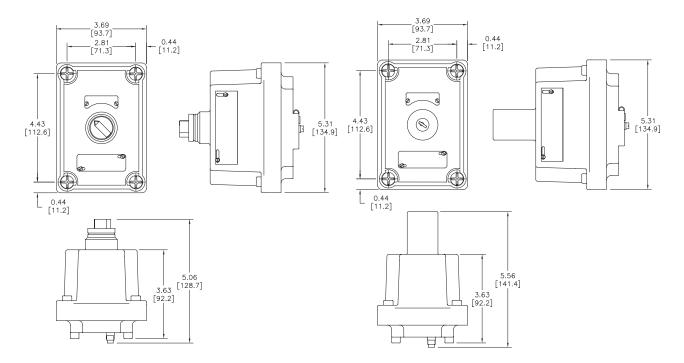
Dimensions in inches [mm]

FXCS-0S2L3F

FXCS-0S3MG6G, -0S3L6G, -0S3R6G

FXCS-0K2L3F22A

FXCS-0K3M6G32A, -0K3L6G32A, -0K3R6G32A



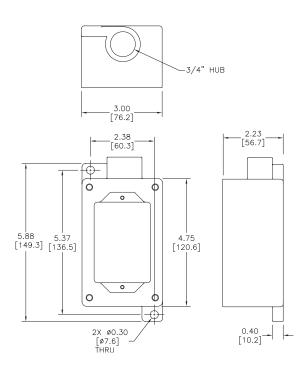
tPIL-138 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK Hazardous Location Controls - Dimensions

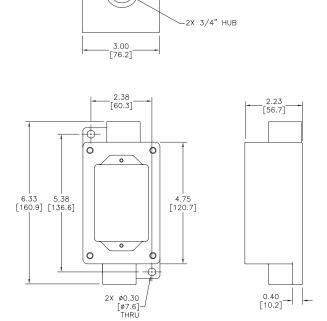
SWB Series Splice/Device Boxes

Dimensions in inches [mm]

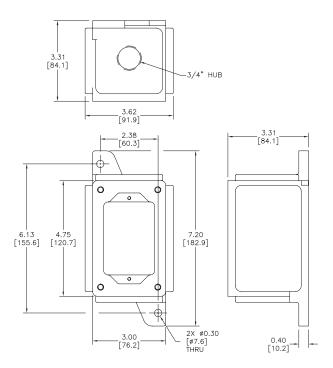
SWB-2



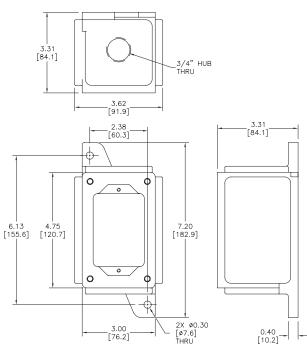
SWB-5



SWB-42



SWB-45

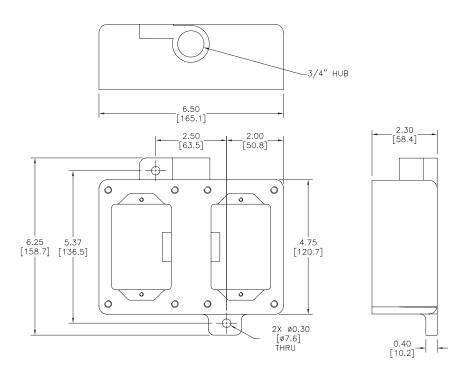


KILLARK Hazardous Location Controls - Dimensions

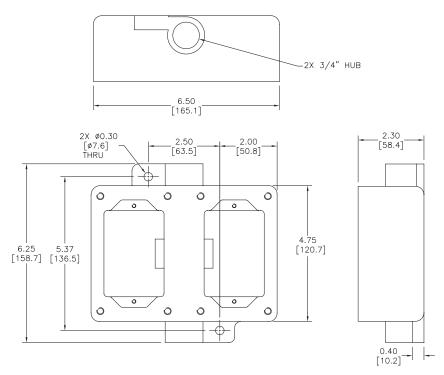
SWB Series Splice/Device Boxes

Dimensions in inches [mm]

SWB-8



SWB-11



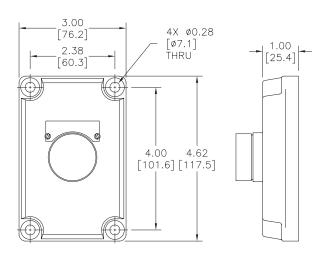
tPIL-140 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

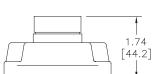
KILLARK Hazardous Location Controls -Dimensions

XCS Series Cover Assemblies

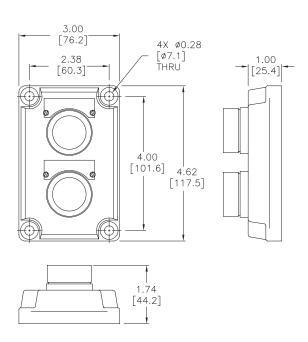
Dimensions in inches [mm]

XCS-0B1, -0B2, -0B3

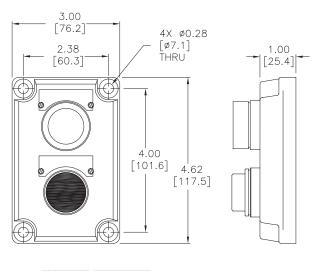


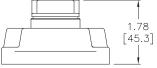


XCS-0B5, -0B7

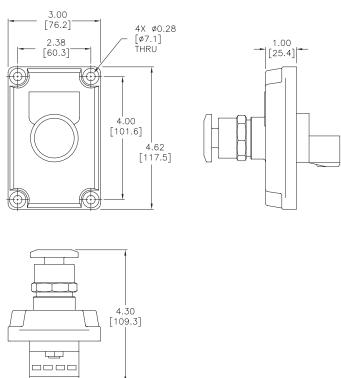


XCS-0B4, -0B4-U





XCS-0MMG3, -0MMR3, -0MMK3

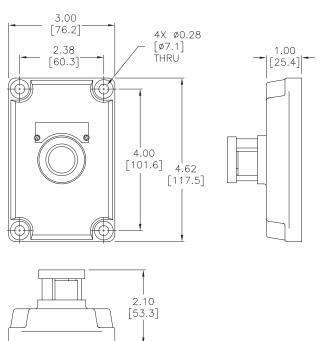


KILLARK Hazardous Location Controls - Dimensions

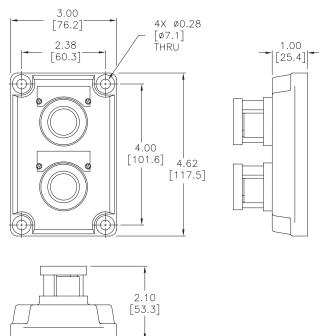
XCS Series Cover Assemblies

Dimensions in inches [mm]

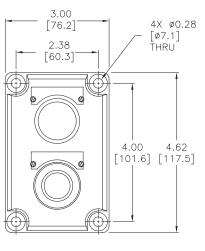
XCS-0B24ALD, -0B24CLD, -0B24RLD

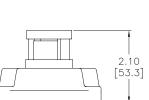


XCS-0B30ALD, -0B30CLD, -0B30GLD, -0B30RLD, -0B30RLD



XCS-0B13-CD, -0B13-OD, -0B13-UD

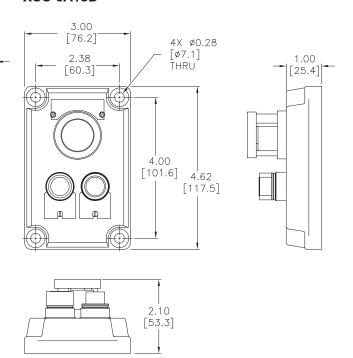




XCS-0A15D

1.00

[25.4]



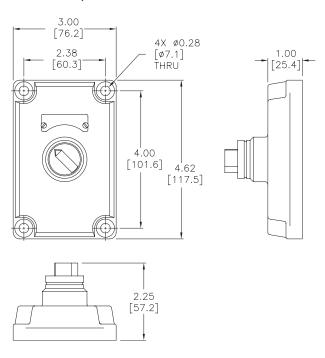
tPIL-142 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

KILLARK Hazardous Location Controls - Dimensions

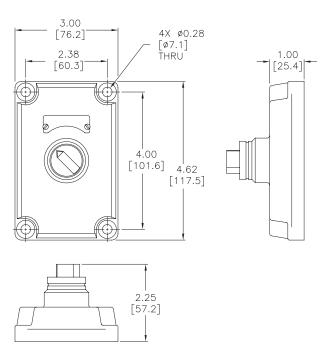
XCS Series Cover Assemblies

Dimensions in inches [mm]

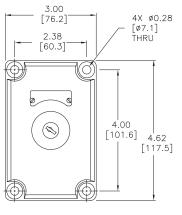
XCS-0S2A1, -0S2A5

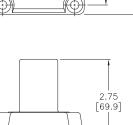


XCS-0S3C4, -0S3C5



XCS-0K2A1A, -0K2A5A

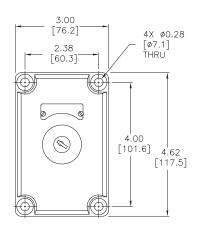


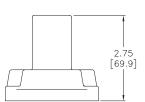


XCS-0K3C4A, -0K3C5A

1.00

[25.4]





1.00

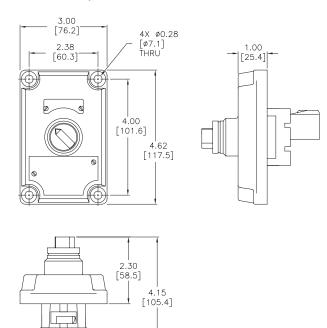
[25.4]

KILLARK Hazardous Location Controls - Dimensions

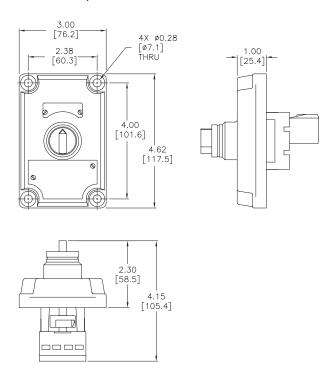
XCS Series Cover Assemblies

Dimensions in inches [mm]

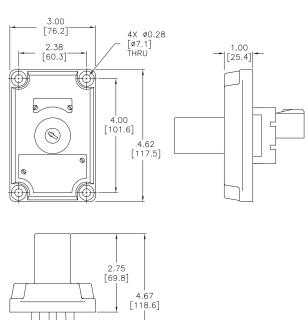
XCS-0S2A1, -0S2A5



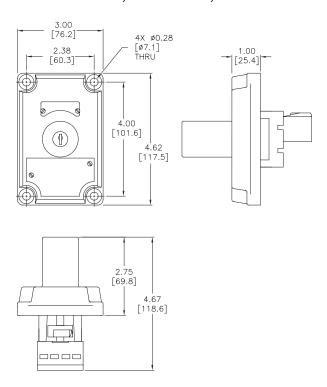
XCS-0S3C4, -0S3C5



XCS-0K2L3F22A



XCS-0K3M6G32A, -0K3L6G32A, -0K3R6G32A



tPIL-144 Pilot Devices

Slim Design LED Signal Towers

PATLITE_®





MES-A and ME-A 25mm Super Slim Signal Towers

These rust-free aluminum body signal towers are designed to be direct mounted. LED module lenses are clear and change color when activated. The super slim design is ideal for tight spaces.



MPS and MP 30mm Signal Towers

These LED towers offer superior impact and heat resistance and have an ABS resin main body. They are designed for direct mounting and have a double insulation for enhanced durability and safety.



LCE 40mm Signal Towers

The LCE Series features low maintenance and energy efficiency using LED technology.



LS7 70mm Signal Towers

The LS7 Series feature a smooth body surface that reduces adhesion of water and dust. There are no exposed screws, shafts or other metals making these signal towers adaptable in many environments. This model is suitable for high pressure and high temperature wash down environments. An available model with a buzzer has a sound frequency that cuts through loud environments.







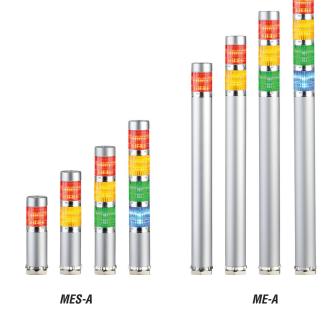




Features

- Slim aluminum body is ideal for small devices.
- Prism-cut lens design for enhanced visibility from any direction
- Impact and heat resistant polycarbonate resin lens for superior durability and light transmission
- High intensity illumination design
- Direct mount installation with a single hole
- Interchangeable modules do not need re-wiring, even after installation
- Corrosion resistant anodized aluminum body
- UL recognized File No. E215660
- NPN models IP42; PNP models IP65





Patlite [®] 25mm LED Signal Towers Selection										
Part Number	Price	#	Modules LED	Polarity	Light Function	Wiring	Body Style	Mounting		
MES-102A-R	\$79.00	1	red							
MES-202A-RG	\$105.00	2	red, green	NPN				Direct mount installation		
MES-302A-RYG	\$125.00	3	red, amber, green	INPIN		460mm pigtail	Short body			
MES-402A-RYGB	\$149.00	4	red, amber, green, blue		Continuous					
MES-102P-R	\$79.00	1	red		light					
MES-202P-RG	\$99.00	2	red, green	PNP						
MES-302P-RYG	\$129.00	3	red, amber, green	PNP						
MES-402P-RYGB	\$149.00	4	red, amber, green, blue							
ME-102A-R	\$79.00	1	red							
ME-202A-RG	\$105.00	2	red, green	NPN						
ME-302A-RYG	\$134.00	3	red, amber, green	INPIN						
ME-402A-RYGB	\$157.00	4	red, amber, green, blue		Continuous	300mm	Standard			
ME-102P-R	\$79.00	1	red		light	pigtail	body			
ME-202P-RG	\$105.00	2	red, green	DND						
ME-302P-RYG	\$134.00	3	red, amber, green	PNP						
ME-402P-RYGB	\$157.00	4	red, amber, green, blue							

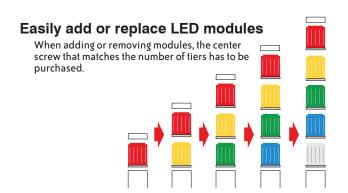
Note: Please see the accessories section of this section for optional and/or replacement components.

Colors in order from left to right.

Specifications

		Patlite	25mm	Signal T	owers Te	chnical S	pecificati	ons			
# of Tiers	Part Number		Ra	ted lage	Operating Voltage			wer mption	Weight g [oz]		
	MES-102A MES-102F									120 [4.23]	
1	ME-102A-	R					0.6	i W	220 [7.761	
	ME-102P- MES-202A										
2	MES-202F	P-RG					1.1	\A/	130 [4.59]	
2	ME-202A-						1.1	VV	230 [8.11]	
	ME-202P-		24V	'DC	±10	0%			250 [5]		
	MES-302A-RYG MES-302P-RYG ME-302A-RYG ME-302P-RYG MES-402A-RYGB MES-402P-RYGB								140 [4.94]		
3							1.7	VV	240 [8.47]	
									150 [150 [5.29]	
4	ME-402A-	RYGB					2.3	W	250 [0 021	
	ME-402P-	RYGB							250 [8.82]		
		LED Unit	Red		Amber		Green		Blue		
Signal wire	e current		NPN	PNP	NPN	PNP	NPN	PNP	NPN	PNP	
(Rated Current	Consumption)	туртьат	25.2		25.2		13.3 mA	20.3 mA	13.3 mA	20.5 mA	
1 ! !#.	_	Max	30.2 mA	27.2 mA	29.2		17.0 mA	23.8 mA	17.0 mA	27.0 mA	
Luminosity Wire Size	/		>1300mcd	>350mcd	>800mcd	>700mcd	>1100mcd	>500mcd	>500mcd	>250mcd	
	amhient te	mnerature	22AWG -10°C to +55°C [+14°F to +133°F]								
Operating ambient temperature Operating ambient humidity			Less than 90% (no condensation)								
Vibration r			19.6 m/s² @ 30Hz								
Insulation			More than 1MΩ at 500VDC between the terminals and the chassis								
Withstand	voltage		500VAC applied for 1 min between terminals and chassis without breaking insulation								
	otection rat		PNP models IP65, NPN models IP42								
Conformity	standards (UL 508, CSA-	C22.2 No.14,	RoHs Directiv	re (EN 50581)			

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.



Interchangeable LED Modules

Color sequence is changeable by adding or removing up to 5 color modules even after installation.

NOTE: LED modules of the same color within a signal tower will light up simultaneously.

Wiring does not change

The LED module colors correspond to the wiring, so re-wiring is not necessary.



Accessories

Access	Accessories for Patlite [®] 25mm Signal Towers						
Part Number	Price	Description					
B72100223-1F1	\$29.00	Red NPN LED module					
B72100223-2F1	\$29.00	Amber NPN LED module					
B72100115-3F1	\$29.00	Green NPN LED module					
B72100115-4F1	\$29.00	Blue NPN LED module					
B72100115-7F1	\$29.00	Clear/white NPN LED module					
B72100226-1F1	\$35.00	Red PNP LED module					
B72100226-2F1	\$35.00	Amber PNP LED module					
B72100135-3F1	\$35.00	Green PNP LED module					
B72100135-4F1	\$35.00	Blue PNP LED module					
B72100135-7F1	\$35.00	Clear/white PNP LED module					
S33552110-0346F1	\$5.00	1-tier center screw, zinc plated steel					
S33552110-0376F1	\$6.00	2-tier center screw, zinc plated steel					
S33552110-03108F1	\$6.00	3-tier center screw, zinc plated steel					
S33552110-03138F1	\$6.00	4-tier center screw, zinc plated steel					
SZ-013	\$8.00	"L" angle aluminum mounting bracket, 22mm diameter, steel					
B32310020-F1	\$8.00	25mm diameter cap, ABS plastic					



B72100223, B72100115



B72100226, B72100135







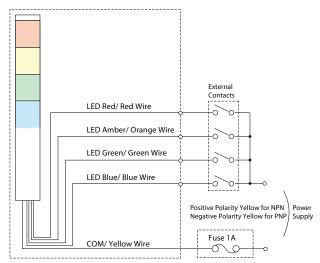
B32310020-F1

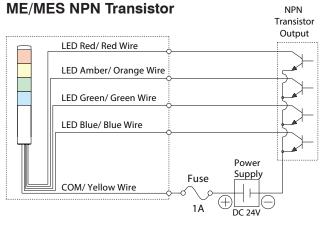


SZ-013

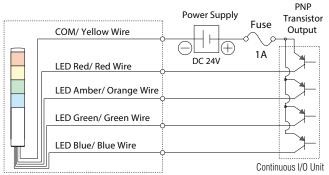
Wiring

ME/MES Contact/Switch

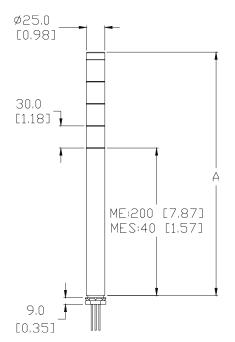




ME/MES PNP Transistor

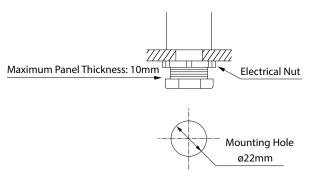


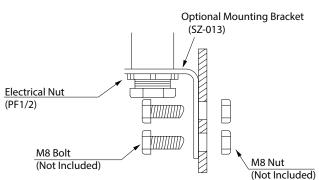
Dimensions	mm [in]
------------	---------



A Dimensions – mm [in]						
MES-102A-R	80 [3.15]	ME-102A-R	240 [9.45]			
MES-202A-RG	110 [4.33]	ME-202A-RG	270 [10.63]			
MES-302A-RYG	140 [5.51]	ME-302A-RYG	300 [11.81]			
MES-402A-RYGB	170 [6.69]	ME-402A-RYGB	330 [12.99]			
MES-102P-R	80 [3.15]	ME-102P-R	240 [9.45]			
MES-202P-RG	110 [4.33]	ME-202P-RG	270 [10.63]			
MES-302P-RYG	140 [5.51]	ME-302P-RYG	300 [11.81]			
MES-402P-RYGB	170 [6.69]	ME-402P-RYGB	330 [12.99]			

See our website: www.AutomationDirect.com for complete engineering drawings.

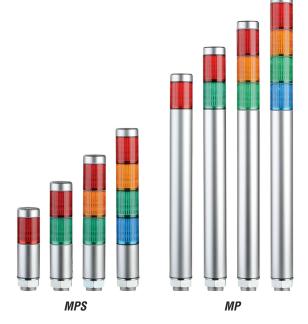




Features

- Prism-cut lens design for enhanced visibility from any direction
- Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a single hole.
- Interchangeable modules do not need re-wiring, even after installation
- Main body is constructed of superior impact and heat resistant ABS resin.
- Lens is made of superior weather resistant and light translucent AS resin.
- Optional MP-B buzzer available. Please see accessories section for ordering information.
- UL recognized File No. E215660
- IP65 ingress protection rating





			Patlite [®] 30mm l	.ED Sigr	al Towers	Selection			
Part Number	Price	"	Modules		Polarity	Light Function	Wiring	Body Style	Mounting
MPS-102-R	\$79.00	#	red LED			FullCulli		Style	
MPS-202-RG	\$103.00	2							
			red, green	-					
MPS-302-RYG	\$130.00	3	red, amber, green	_					
MPS-402-RYGB	\$153.00	4	red, amber, green, blue				1000mm		
MPS-102-RZ	\$79.00	1	red				pigtail		
MPS-202-RGZ	\$107.00	2	red, green	Clear				Short body	
MPS-302-RYGZ	\$134.00	3	red, amber, green	lens					
MPS-402-RYGBZ	\$157.00	4	red, amber, green, blue						
MPS-102C-R	\$79.00	1	red						
MPS-202C-RG	\$99.00	2	red, green				M12 Connector		Direct mount installation
MPS-302C-RYG	\$129.00	3	red, amber, green		NPN/PNP	Continuous			
MP-102-R	\$79.00	1	red	_	INPIN/PINP	light			
MP-202-RG	\$109.00	2	red, green						
MP-302-RYG	\$129.00	3	red, amber, green						
MP-402-RYGB	\$155.00	4	red, amber, green, blue				1180mm		
MP-102-RZ	\$85.00	1	red				pigtail		
MP-202-RGZ	\$109.00	2	red, green	Clear				Standard body	
MP-302-RYGZ	\$139.00	3	red, amber, green	lens					
MP-402-RYGBZ	\$159.00	4	red, amber, green, blue						
MP-102C-R	\$79.00	1	red						
MP-202C-RG	\$109.00	2	red, green	_			M12 Connector		
MP-302C-RYG	\$135.00	3	red, amber, green						

Note: Please see the accessories section of this section for optional and/or replacement components. Colors in order from left to right.

Specifications

		Patlite	® 30mm Signal T	owers Technical S	pecifications					
# of Tiers	Part N	umber	Rated Voltage	Operating Voltage	Power Consumption	Weight g [oz]				
	MPS-102-R MPS-102-RZ MPS-102C-R MP-102-R MP-102-RZ		24V AC/DC			110 [3.88]				
1			MPS-102C-R MP-102-R MP-102-RZ		MPS-102C-R MP-102-R		24VDC		0.7 W	
ı							24V AC/DC		U.7 VV	210 [7.41]
	MP-102C-	R	24VDC							
	MPS-202- MPS-202-		24V AC/DC			130 [4.59]				
2	MPS-2020		24VDC		1.4 W					
۷	MP-202-R MP-202-R		24V AC/DC	+10%	1. 4 W	230 [8.11]				
	MP-202C-		24VDC	±10 /0						
	MPS-302- MPS-302-		24V AC/DC			150 [5.29]				
3	MPS-302C-RYG MP-302-RYG MP-302-RYGZ		24VDC		2.0 W					
3			24V AC/DC		2.0 VV	250 [8.82]				
	MP-302C-	RYG	24VDC							
,	MPS-402-		0.41/4.0/D.0		0.014	170 [6.0]				
4	MP-402-R MP-402-R		24V AC/DC		2.6 W	270 [9.52]				
	1111 402 11	LED Unit	Red	Amber	Green	Blue				
Signal wire	e current	Typical	29.0 mA	29.5 mA	17.1 mA	17.1 mA				
(Rated Current	Consumption)	Max	32.7 mA	34.5 mA	21.4 mA	21.4 mA				
Luminosity	/		550mcd	650mcd	1900mcd	700mcd				
Wire Size			22AWG							
Operating ambient temperature				-30°C to +60°C [-22°F to +140°F]					
Operating ambient humidity				Less than 90% (
Vibration resistance					² @ 30Hz					
Insulation resistance					een the terminals and the ch					
Withstand			500VAC applie		als and chassis without brea	king insulation				
	tection rat			IP65 (IE0						
	standards			UL 508, CSA-C22.2 No.14,	RoHs Directive (EN 50581)					

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Easily add or replace LED modules When adding or removing modules, the center screw that matches the number of tiers has to be purchased.

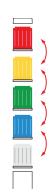
Interchangeable LED Modules

Color sequence is changeable by adding or removing up to 5 color modules even after installation.

NOTE: LED modules of the same color within a signal tower will light up simultaneously.

Wiring does not change

The LED module colors correspond to the wiring, so re-wiring is not necessary.



Accessories

Accessories for Patlite $^{ extbf{R}}$ 30mm Signal Towers					
Part Number	Price	Description			
MP-B	\$59.00	80dB @ 1 meter / 3,000Hz add-on alarm; activated by red module			
B72100182-1F1	\$35.00	Red LED module			
B72100182-2F1	\$35.00	Amber LED module			
B72100182-3F1	\$35.00	Green LED module			
B72100182-4F1	\$35.00	Blue LED module			
B72100182-7F1	\$35.00	Clear/white LED module			
B72100192-1F1	\$35.00	Red LED module with clear lens			
B72100192-2F1	\$35.00	Amber LED module with clear lens			
B72100192-3F1	\$35.00	Green LED module with clear lens			
B72100192-4F1	\$35.00	Blue LED module with clear lens			
S33552120-0355F1	\$5.00	1-tier center screw, zinc plated steel			
S33552120-0390F1	\$5.00	2-tier center screw, zinc plated steel			
S33552120-03125F1	\$6.00	3-tier center screw, zinc plated steel			
S33552120-03160F1	\$6.00	4-tier center screw, zinc plated steel			
B25110032-F1	\$6.00	LED module o-ring, silicone			
SZ-904	\$15.00	22mm to 3/4"FNPT adapter, aluminum			
SZ-150	\$19.00	220mm extension pole, ABS plastic			
SZ-013	\$8.00	"L" angle mounting bracket, 22mm diameter, aluminum			
B32310025-F1	\$8.00	30mm diameter cap, ABS plastic			



MP-B



B72100xxx-xF1



SZ-150



SZ-904



B32310025-F1



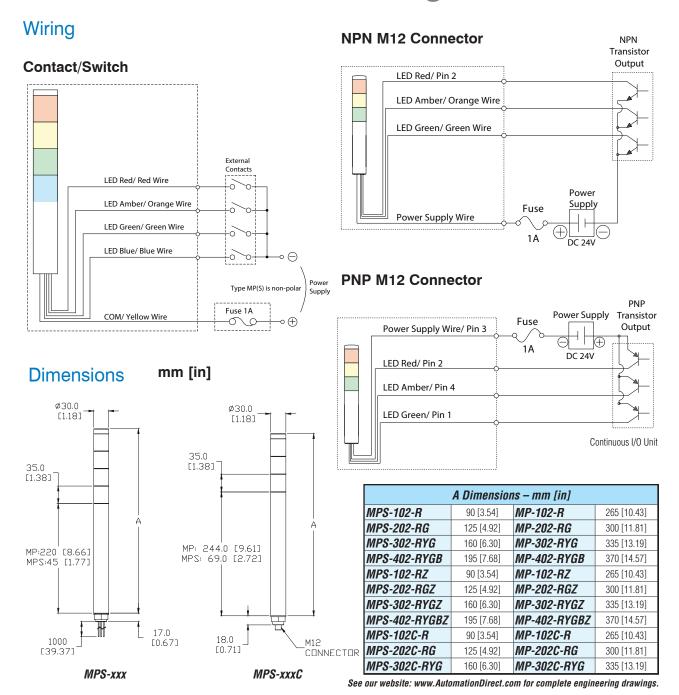
S33552120-03xxxxx

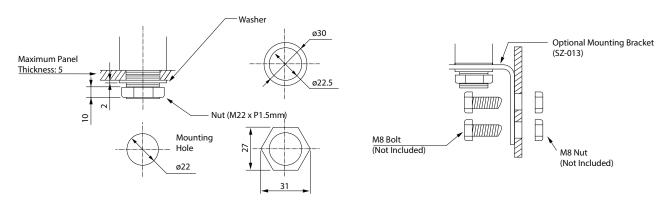


B25110032-F1



SZ-013





Features

- Prism-cut lens design for enhanced visibility from any direction
- Dual reflection system for enhanced light diffusion; creating bright, distinctive illumination while saving energy
- Two built-in alarms (FB model) with selectable sound patterns
- Adjustable volume with a maximum of 85dB (at 1m)
- Direct or pole mount installation
- Color-coordinated wiring corresponding to the lens color for quick wiring and verification
- Interchangeable LED modules requires no re-wiring, even after installation
- Main body is constructed of superior impact and heat resistant ABS resin.
- Lens is made of superior impact resistant and light translucent AS resin.
- Conforms to the CE requirements
- UL Recognized Components (File No. E215660).
- NEMA Type 4/4X/13 for -W, -FBW Only





LCE

Patlite [®] 40mm LED Signal Towers Selection								
Part Number	Price		Modules	Function	Wining	Mounting		
rail Nullibei	FIICE	#	LED	FullCuoli	Wiring	Mounting		
LCE-202-RG	\$99.00	2	red, green		1100mm pigtail			
LCE-2M2-RG	\$125.00		reu, green		1050mm pigtail			
LCE-302-RYG	\$115.00	3	red, amber, green	Continuous light	1100mm pigtail			
LCE-3M2-RYG	\$139.00	3	reu, ambei, green	Guittiiluuus iigiit	1050mm pigtail			
LCE-402-RYGB	\$149.00	4	red, amber, green, blue		1100mm pigtail			
LCE-4M2-RYGB	\$175.00	4	reu, arriber, green, brue		1050mmpigtail	300mm		
LCE-202FB-RG	\$139.00	2	red, green		1000mm pigtail	pole mount		
LCE-2M2FB-RG	\$165.00		reu, green		950mm pigtail			
LCE-302FB-RYG	\$159.00	3	red, amber, green	Flashing/ 2 alarms	1000mm pigtail			
LCE-3M2FB-RYG	\$179.00	3	reu, ambei, green		950mm pigtail			
LCE-402FB-RYGB	\$189.00	4	red, amber, green, blue		1000mm pigtail			
LCE-4M2FB-RYGB	\$215.00	4	rea, arriber, green, blue		950mm pigtail			
LCE-202W-RG	\$79.00	2	red, green		1100mm pigtail			
LCE-2M2W-RG	\$99.00		reu, green		1050mm pigtail			
LCE-302W-RYG	\$97.00	3	red, amber, green	Continuous light	1100mm pigtail			
LCE-3M2W-RYG	\$119.00	J	reu, ambei, green	Continuous right	1050mm pigtail			
LCE-402W-RYGB	\$129.00	4	red, amber, green, blue		1100mm pigtail			
LCE-4M2W-RYGB	\$149.00	4	rea, arriber, green, blue		1050mm pigtail	Direct mount		
LCE-202FBW-RG	\$119.00	2	red, green		1000mm pigtail	Direct intuit		
LCE-2M2FBW-RG	\$145.00		reu, green		950mm pigtail			
LCE-302FBW-RYG	\$139.00	3	red, amber, green	Flashing/	1000mm pigtail			
LCE-3M2FBW-RYG	\$159.00	J	ieu, ailibei, gieeli	2 alarms	950mm pigtail			
LCE-402FBW-RYGB	\$169.00	4	red, amber, green, blue		1000mm pigtail			
LCE-4M2FBW-RYGB	\$189.00	4	ויסט, מוווטטו, עויטטוו, טועט		950mm pigtail			

Note: Please see the accessories section of this section for optional and/or replacement components.

tPIL-154 1-800-633-0405

Specifications

		Patlite ⁽	$^{ m IS}$ 40mm Signal To	wers Technical Sp	ecifications				
# of Tiers	Part N	lumber	Rated Voltage	Operating Voltage	Power Consumption	Weight g [oz]			
	LCE-202-R	G			-	550 [19.40]			
	LCE-202FB	R-RG	24V AC/DC		2.4 W	610 [21.52]			
	LCE-202W	-RG	24V AU/DU		Z.4 VV	190 [6.70]			
2	LCE-202FBW-RG LCE-2M2-RG LCE-2M2FB-RG					250 [8.82]			
2						630 [22.22]			
			90-250 VAC		2.6 W	680 [23.99]			
	LCE-2M2V	/-RG	30-230 VAO		2.0 W	270 [9.52]			
	LCE-2M2F					320 [11.29]			
	LCE-302-R	YG				580 [20.46]			
	LCE-302FB		24V AC/DC		3.0 W	640 [22.58]			
	LCE-302W		211110/00		3.U W	220 [7.76]			
3	LCE-302FB			±10%		280 [9.88]			
	LCE-3M2-I			±1070	3.2 W	660 [23.28]			
	LCE-3M2F		90-250 VAC			710 [25.04]			
	LCE-3M2W-RYG LCE-3M2FBW-RYG					00 200 1/10	300 [10.58]		
						350 [12.35]			
	LCE-402-R					610 [21.52]			
	LCE-402FB		24V AC/DC		3.6 W	670 [23.63]			
	LCE-402W		,_,			250 [8.82]			
4	LCE-402FB					310 [10.93]			
	LCE-4M2-RYGB					690 [24.34]			
	LCE-4M2F		90-250 VAC		3.8 W	740 [26.10]			
	LCE-4M2W					330 [11.64]			
	LCE-4M2F				_	380 [13.40]			
Signal wire	current	LED Unit	Red	Amber	Green	Blue			
(Rated Current (Consumption)	Typical	27.5 mA	27.2 mA	15.2 mA	15.2 mA			
, , ,		Max	34.2 mA	35.9 mA	19.4 mA	19.4 mA			
Luminosity			≥760mcd	≥830mcd	≥1800mcd	≥700mcd			
Wire sizes	ont/ocurd /	ED medale)	For 24V AC/DC models 22AWG; for 90-250 VAC models power wire 18AWG, lead wires 22AWG						
Buzzer curr	eni/Svuila (rd IIIUueis)							
Flashing	mhiant tan	anaratura	60 flashes per minute						
Operating ambient temperature			-30°C to +60°C [-22°F to +140°F] Less than 90% (no condensation)						
Operating ambient humidity Vibration resistance				,	2 @ 30Hz				
Insulation i			More			naccie			
Withstand 1			More than 1MΩ at 500VDC between the terminals and the chassis 500VAC applied for 1 min between terminals and chassis without breaking insulation						
Ingress pro		na							
		iiy	IP54 for pole mounted models; IP65 and UL type 4, 4x, and 13 for direct mount						
	Conformity standards UL 508, CSA-C22.2 No.14, RoHs Directive (EN 50581)								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Easily add or replace LED modules When adding or removing modules, the center screw that matches the number of tiers has to be purchased.

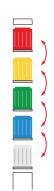
Interchangeable LED Modules

Color sequence is changeable by adding or removing up to 5 color modules even after installation.

NOTE: LED modules of the same color within a signal tower will light up simultaneously.

Wiring does not change

The LED module colors correspond to the wiring, so re-wiring is not necessary.



Accessories

Access	Accessories for Patlite [®] 40mm Signal Towers						
Part Number	Price	Description					
SZ-012	\$7.00	L-bracket for 17mm pole					
SZ-021	\$22.00	Side mount bracket for 17mm pole, ivory color					
SZ-80L	\$50.00	300mm pole kit for LCE series with L-bracket					
B22220020-F1	\$23.00	40mm diameter top mating bracket for 17mm pole, ivory color					
SZ-80NPT	\$48.00	40mm to 1/2" FNPT adapter					
SZ-011	\$22.00	94mm diameter aluminum flange mount bracket for 17mm pole					
SZ-903	\$16.00	17mm to 1/2" FNPT adapter					
17POLE-1010	\$34.00	1000mm chrome plated steel pole, 17mm diameter with L-bracket					
B72100126-1F1	\$26.00	Red LED module					
B72100126-2F1	\$26.00	Amber LED module					
B72100126-3F1	\$37.00	Green LED module					
B72100126-4F1	\$37.00	Blue LED module					
B72100126-7F1	\$37.00	Clear/white LED module					
S33552120-0350F2	\$7.00	1-tier center screw, zinc plated steel					
S33552120-0385F1	\$7.00	2-tier center screw, zinc plated steel					
S33552120-03120F1	\$7.00	3-tier center screw, zinc plated steel					
\$33552120-03155F1	\$10.00	4-tier center screw, zinc plated steel					
B32310029-F1	\$8.00	40mm diameter cap, ABS plastic					
Z35721009-034F1	\$7.00	O-ring, silicone					



SZ-012



B72100126-xF1



SZ-011



SZ-021



B32310029-F1



SZ-903



S33552120-03xxxx



Z35721009-034F1



17POLE-1010



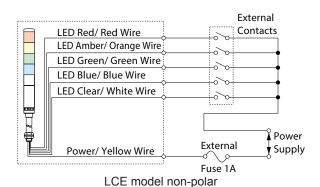
SZ-80L



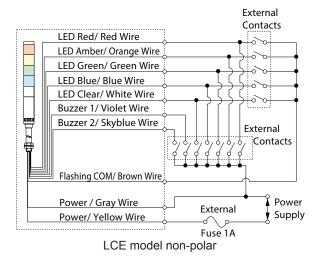
B2220020-F1

Wiring

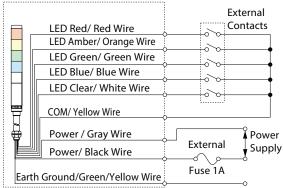
AC/DC 24V Lighting Type



AC/DC 24V Lighting/Flashing Type

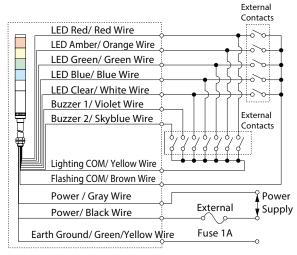


• AC 90 - 250V Lighting Type



LCE model non-polar

• AC 90 - 250V Lighting/Flashing Type

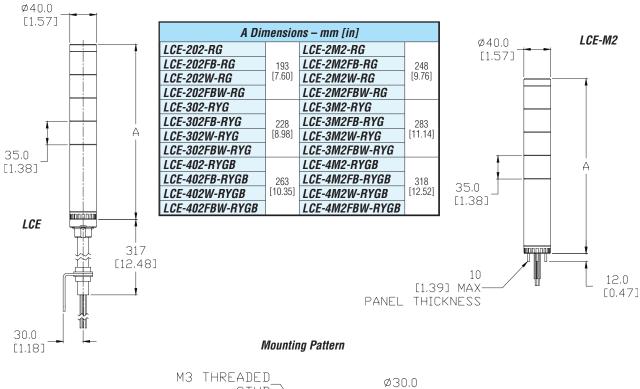


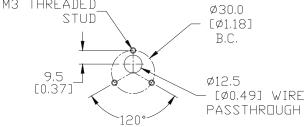
LCE model non-polar

Lead Wire Color Coordination							
LED Unit Color	Lead Wire Color						
Red	Red						
Amber	Orange						
Green	Green						
Blue	Blue						
Clear/white	White						
Alarm Sounds	Lead Wire Color						
Buzzer 1	Purple						
Buzzer 2	Sky blue						

	Signal Line Voltage and Current per LED Module						
		o	LED Alarm				
Model	Rated Voltage	Signal Voltage	Signal Line Guitein Signal Line				
	Vonago	vonago	Red, Amber	Green, Blue	Current	Current	
LCE	24V AC/DC	24V AC/DC	30mA	25mA	40mA	250mA	
LCE-M2	90-250 VAC	24VDC	30mA	25mA	40mA	250mA	

Dimensions mm [in]





See our website: www.AutomationDirect.com for complete engineering drawings.

Features

- Smooth surfaced body
- Stackable design
- Shock-resistant polycarbonate body
- M12 connector quick disconnect
- Inner lens LED emits a more efficient light
- IP65 (buzzer models IP54; WC9 models IP69k)

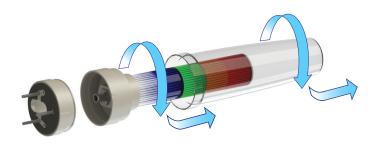




LS7

	Patli	te®	70mm LED Signal Tow	ers Selectio	n	
Part Number	Price Lights		Body	Buzzer	Wiring	
		#	Color	Color		<u> </u>
LS7-302DWC-RYGNN	\$139.00	3	red, amber, green			
LS7-502DWC-RYGBC	\$225.00	5	red, amber, green, blue, white	Dark	_	
LS7-302DBWC-RYGNN	\$178.00	3	red, amber, green	gray	Voc	
LS7-502DBWC-RYGBC	\$264.00	5	red, amber, green, blue, white		Yes	
LS7-302WC-RYGNN	\$139.00	3	red, amber, green			
LS7-502WC-RYGBC	\$225.00	5	red, amber, green, blue, white	Off-white	_	
LS7-302BWC-RYGNN	\$178.00	3	red, amber, green	OII-WIIILE	Yes	
LS7-502BWC-RYGBC	\$264.00	5	red, amber, green, blue, white		162	M12 Connector
LS7-302DWC9-RYGNN	\$275.00	3	red, amber, green			WITZ GUIIIIEGIUI
LS7-502DWC9-RYGBC	\$359.00	5	red, amber, green, blue, white	Dark	_	
LS7-302DBWC9-RYGNN	\$319.00	3	red, amber, green	gray	Yes	
LS7-502DBWC9-RYGBC	\$399.00	5	red, amber, green, blue, white		162	
LS7-302WC9-RYGNN	\$279.00	3	red, amber, green			
LS7-502WC9-RYGBC	\$359.00	5	red, amber, green, blue, white	Off-white		
LS7-302BWC9-RYGNN	\$309.00	3	red, amber, green	OII-WIIILE	Yes	
LS7-502BWC9-RYGBC	\$389.00	5	red, amber, green, blue, white		162	

Note: Please see the accessories section of this section for optional and/or replacement components.



Stackable construction, M12 quick disconnect

PATLITE® 70mm LED Signal Towers

Specifications

		Patlite [®]	70mm Signal	Towers Technical	Specification	s			
# of Tiers	P	art Number	Rated Voltage	Maximum Sound Pressure	Body Color	Туре	Weight g [oz]		
	LS7-302L	OWC-RYGNN			Dark gray				
	LS7-3021	VC-RYGNN			Off-white	_	004[0.05]		
	LS7-302L	DWC9-RYGNN		_	Dark gray	High temperature,	234 [8.25]		
	LS7-302V	NC9-RYGNN			Off-white	high pressure, wash down safe			
3	LS7-302L	DBWC-RYGNN		buzzer 1 = 82dB @	Dark gray				
	LS7-302BWC-RYGNN			1M / 2000Hz	Off-white	_	288 [10.16]		
	LS7-302L	DBWC9-RYGNN		buzzer 2 = 85dB @	Dark gray	High temperature,	288 [10.16]		
	LS7-302E	BWC9-RYGNN	24VDC	1M / 2000/3000 Hz	Off-white	high pressure, wash down safe			
	LS7-502DWC-RYGBC		(±10%)		Dark gray				
	LS7-502V	NC-RYGBC			Off-white	_	100 011 200		
	LS7-502L	OWC9-RYGBC		_	Dark gray	High temperature,	286 [10.09]		
_	LS7-502V	NC9-RYGBC			Off-white	high pressure, wash down safe			
5	LS7-502DBWC-RYGBC			buzzer 1 = 82dB @	Dark gray				
	LS7-502E	BWC-RYGBC		1M / 2000Hz	Off-white	_	352 [12.42]		
	LS7-502L	DBWC9-RYGBC		buzzer 2 = 85dB @	Dark gray	High temperature,	302 [12.42]		
	LS7-502E	BWC9-RYGBC		1M / 2000/3000 Hz	Off-white	high pressure, wash down safe			
Signal wire	e current	LED Unit	Red	Amber	Green	Blue	White		
(Rated Current Consumption)		Typical	20mA		30m				
		Max	35mA		40m				
Luminosity		_	>490mcd	>1140mcd	>940mcd	>195mcd	>1000mcd		
		emperature 	-30°C to +60°C [-22°F to +140°F]						
Operating a		umidity			an 90% (no condensa	tion)			
Vibration r Insulation				More than 1MΩ at 500V	19.6 m/s ² @ 30Hz	inale and the changin			
Withstand		;	500\/\()	applied for 1 min betwee			culation		
Mass	voitaye	3 Tiers	JUVAC	-''	0.26 kg [0.57 lb]	maiout bioanilly III.	Juliation		
(tolerance	±10%)	5 Tiers			0.37 kg [0.82 lb]				
Ingress pro			Contir	uous illumination models	0	ls: IP54 /WC9 models:	IP69k		
Conformity				UL 508, CSA-C22.	.2 No.14, RoHs Direc	tive (EN 50581)			

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Accessories

Acces	Accessories for Patlite [®] 70mm Signal Towers					
Part Number	Price	Description				
SZ-100D	\$27.00	150mm tall pedestal, dark gray				
SZ-110D	\$33.00	Wall mount bracket, dark gray				
SZ-130D	\$33.00	3-hole to 4-hole mounting adapter, dark gray				
SZ-100	\$27.00	150mm tall pedestal, off-white				
SZ-110	\$33.00	Wall mount bracket, off-white				
SZ-130	\$33.00	3-hole to 4-hole mounting adapter, off-white				
B45110011-F1	\$29.00	Outer cover, polycarbonate				
Z35721039-F1	\$9.00	O-ring for outer cover, silicone				
Z35721038-056F1	\$9.00	O-ring for base, silicone				









mm [in]



B45110011-F1









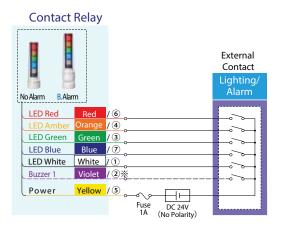
SZ-130D

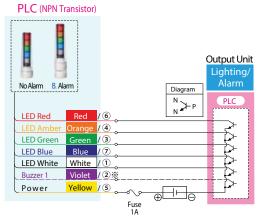
SZ-130

Z35721039-F1

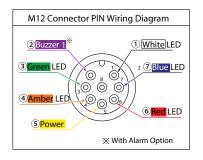
Z35721038-056F1

Wiring

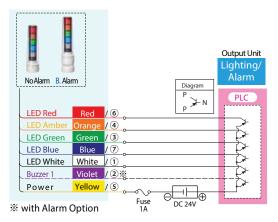




LED colors associated with pin numbers



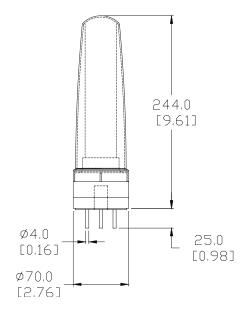
PLC (PNP Transistor)

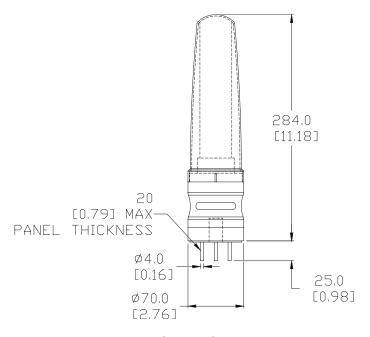


LED colors associated with pin numbers

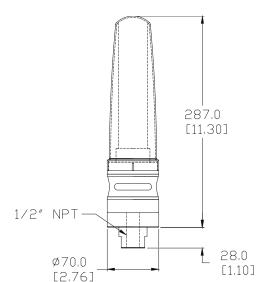
tPIL-162 1-800-633-0405

Dimensions mm [in]

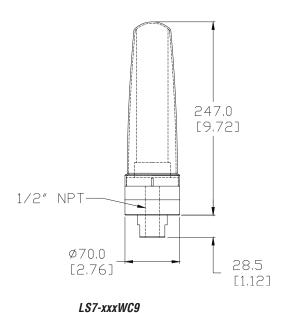




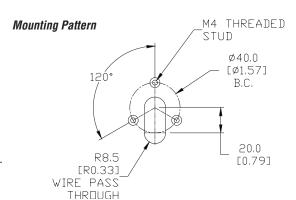
LS7-xxxDWC



LS7-xxxBWC



LS7-xxxBWC9



 ${\it See our website: www. Automation Direct. com for complete engineering drawings.}$

Werma Modular Stack Lights Overview



Description

WERMA's modular stack light system offers total choice and flexibility as it allows for a completely free combination of optical and audible signal elements. The bayonet mechanism allows elements to be mechanically and electrically connected within seconds.

This means that elements can be safely and easily changed (contact-voltage proof) without the need for tools.

Typical product applications include; machine tools, packaging machines, conveyor systems, printing machines, loading docks, retail centers (check outs), queuing indicators for theme parks, and more.

Product highlights:

- Signal elements in common voltages (24V DC and 115V AC)
- Modular system allows combination as required
- Two different sizes (70 and 50 mm diameter)
- Five colors available
- · Wide range of audible elements
- Diverse and flexible solutions

Simple assembly with bayonet mechanism

- Simple mounting and removal of the elements
- New combinations at the twist of a hand
- Tool-free bulb change
- · Position marks to guide alignment













Werma Stack Lights Family Overview



KombiSIGN 71

Modular IP65-rated stack light system with 70 mm diameter for use in standard applications.

KS 71 stack lights are available in 5 colors and multiple light effects (permanent, blinking, rotating, flashing). Multiple light sources (incandescent, LED, Xenon tube) and a wide variety of mountings are available. Combine up to 5 elements per terminal. Various terminal design choices are available as well as multiple voltages and audible elements up to 105 dB.



Modular IP54-rated stack light system with 50 mm diameter for use on smaller machines.

KS 50 stack lights are available in 5 colors with either permanent or blinking light effects in multiple voltages. A choice of incandescent or LED light sources is available as well as an 80 dB audible element. Elements can be combined in a variety of mountings, up to 4 elements per mounting for 360° of visibility.









KS 71 Terminal Elements



Screw terminals



KS 50 Terminal Element

Screw terminal









CAGE CLAMP® terminals



Terminal elements with CAGE CLAMP® technology enable leads to be quickly and easily wired, guaranteeing a secure and reliable contact.





Insert screwdriver at a slight angle into opening as far as possible.



Open spring-loaded clamp with the help of the screwdriver and insert wire as far as possible.



Remove screwdriver - the wire is firmly clamped.



CAGE CLAMP® is a registered trademark of WAGO Kotakttechnik GmbH.

Configuring Your KombiSIGN 71 Stack Light

▶ STEP 1

Select the required optical elements for your application

▶ STEP 2

Select the optional audible elements for your application

Optical Signal Elements · Incandescent Permanent Light • LED Permanent Light · LED Flashing Light • LED Blinking Light . LED Rotating Light · Xenon Flashing Light **Audible Signal Elements** Buzzer Element • Siren Element **Tube Base Mount** Plain Base Mount Screw terminal CAGE CLAMP® terminal CAGE CLAMP® terminal Order no. **64081000** Order no. 64082000 Order no. **64080000** Order no. **64083000** Tube Ø 25 mm, all anodized

100 mm long

250 mm long

400 mm long

600 mm long

800 mm long

Base for Tube, plastic

Order no. 97584090

Base for Tube, metal

97584080 1000 mm long

97584510 97584025

97584040 97584060

97584003

▶ STEP 3

Select the correct terminal element for your mounting option (includes cap)

▶ STEP 4

Where appropriate, select a base and the desired tube length (only for tube mounting)

•

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▶ STEP 5

Where appropriate, select the bracket and the contact box.



tPIL-166 1-800-633-0405

KS 71 Elements Quick Selection Guide

			STE	P 1 - Optical	Elemen	ts Quick Selecti	on Guide				
Type of Light	Part Number	C	olor	Operating Voltage	Price	Type of Light	Part Number	Colo	r	Operating Voltage	Price
	64110000		Red		\$20.50		64310055	F	Red	•	\$99.00
Incandescent	64120000		Green	Depends on bulb	\$20.50		64320055	G	reen		\$99.0
Permanent*	64130000		Yellow	selection (bulb	\$20.50		64330055	Υe	ellow	24VDC	\$99.0
r Gillianicin	64140000		Clear	sold separately)	\$20.50		64340055	C	lear		\$99.0
	64150000	11	Blue		\$20.50	Xenon	64350055	E	Blue		\$99.0
	95584035			24V AC/DC	\$7.25	Flashing Light	64310067	F	Red		\$84.0
Incandescent	95584038	171	Clear	230VAC	\$7.25		64320067	G	reen		\$84.0
Bulbs	95584057	2	Glear	115V AC/DC	\$7.25		64330067	Υe	ellow	115VAC	\$84.0
	90004007	9		I IOV AC/DC	\$1.23		64340067	C	lear		\$84.0
	64410075		Red		\$49.00		64350067	E	Blue		\$84.0
	64420075		Green		\$49.00		64411075	F	Red		\$64.0
	64430075		Yellow	24V AC/DC	\$49.00	LED	64421075	G	reen	24V AC/DC	\$64.0
	64440075		Clear		\$74.75		64431075	Ye	ellow		\$64.0
LED	64450075		Blue		\$74.75		64441075	C	lear		\$84.5
LEV Permanent	64445055**		Multi	24VDC	\$197.00		64451075	Blue	Blue		\$84.5
reillaneni	64410067		Red		\$58.75	Blinking Light	64411067	F	Red		\$67.2
	64420067		Green		\$58.75		64421067	G	reen		\$67.2
	64430067		Yellow	115VAC	\$58.75		64431067	Ye	ellow	115VAC	\$67.2
	64440067		Clear		\$85.00		64441067	C	lear		\$95.5
	64450067		Blue		\$85.00		64451067	E	Blue		\$95.5
	64412055		Red		\$119.00		64413075	F	Red		\$109.0
LED	64422055		Green		\$88.50	LED	64423075	G	reen		\$109.0
Flashing Light	64432055		Yellow	24VDC	\$119.00	Rotating Light	64433075	Ye	ellow	24V AC/DC	\$109.0
ı ıasınıy Liyiil	64442055		Clear		\$185.00	notating Light	64443075	C	lear		\$119.0
	64452055		Blue		\$185.00		64453075		Blue		\$169.0
Bulbs are required	for permanent in	ncandes	cent optic	al element.							

^{**} The multicolor element can be combined with up to 2 additional signal elements.

STE	P 2 - Audible Ele	ements Qu	ıick Selecti	ion Guide	
Part Number	Description	Voltage	Tone Frequency	Max. Volume @ 1m	Price
64580075	Buzzer element	24V AC/DC	1.75 kHz	85dB	\$49.00
64580077	Duzzei element	115VAC	1.73 KHZ	OUUD	\$59.00
64582075	Multi-functional siren	24V AC/DC	1.6 / 3.4 kHz	100dB	\$85.00
64582067		115VAC	1.0 / 3.4 KHZ	TOUUD	\$89.00
64585055	Multi-functional siren, external trigger	24VDC	1.6 / 3.4 kHz	100dB	\$99.00
64581055	Siren element with self-adjusting sound output	24VDC	2.5 kHz	100dB	\$129.00

STEP 5 - Contact Boxes & Brackets Quick Selection Guide					
Mounting Option	Part Number	Description	Price		
	97584001	Contact box with side exit cable	\$17.25		
Plain Base	96000002	Bracket for base mounting	\$15.00		
Mount	97584085	Bracket for 1-sided mounting	\$12.75		
	97584086	Bracket for 2-sided mounting	\$14.00		
	97584001	Contact box with side exit cable	\$17.25		
Tube Base	97584004	Contact box w/ magnetic base and side cable exit	\$46.25		
Mount	96000014	Bracket for base mounting w/ concealed cable entry	\$18.75		
	96000001	Bracket for tube mounting	\$15.00		

STEP 3 - 1	Terminal Elements Quic	k Selection	Guide
Part Number	Description	Mounting	Price
64082000	Screw terminal with M3 clamps		\$27.00
64080000	Terminal element with CAGE CLAMP® technology	Base Mounting	\$27.00
64083000	Screw terminal with M3 clamps		\$27.00
64081000	Terminal element with CAGE CLAMP® technology	Tube Mounting	\$27.00

STEP 4 - Tub	e Mounting/Accessories Quick Se	election
Part Number	Description	Price
97584510	Annodized tube, 100mm [3.94 in] long	\$11.75
97584025	Annodized tube, 250mm [9.84 in] long	\$14.00
97584040	Annodized tube, 400mm [15.75 in] long	\$19.00
97584060	Annodized tube, 600mm [23.62 in] long	\$25.50
97584080	Annodized tube, 800mm [31.49 in] long	\$32.25
97584003	Annodized tube, 1000mm [39.37 in] long	\$43.75
96000018	Tube with clamp	\$47.50
96000025	Adapter for single-hole mounting	\$47.50
97584010	Base with integrated tube	\$24.00
97584090	Plastic base for 25mm [0.98 in] diameter tube	\$12.00
97584091	Metal base for 25mm [0.98 in] diameter tube	\$19.00
96000031	Plastic tube for foldaway base	\$8.00
97584002	Adapter for tube mounting	\$9.00
96000004	Cable gland for surface mounting	\$5.00
96000030	Foldaway base	\$50.25

KS 71 Optical Elements Specifications

			ntical	Flements '	Technical	Specifications				
Description	Valtage	Part			Starting	Operating Temp/	Life	Flash	Housing	Wainbt
Description	Voltage	Number	Color	Current	Current	Protection	Duration	Frequency	Material	Weight
	12-240 V	64110000	Red	Depends		-20°C to 60°C				
Incandescent Permanent	Depends on	64120000	Green	on bulb		-20 C to 60 C	up to			55g
Light Element	bulb selection. (bulb sold	64130000	Yellow	selection. (bulb sold	_	[11 (0 1 (0 1)	5,000h	_	Polycarbonate	[1.94 oz]
with B15d Bayonet Socket	separately)	64140000	Clear	separately)		IP65				
		64150000	Blue							
		64410075 64420075	Red	max. 30mA max. 25mA	<u> </u> 					
	04/140/00	64430075	Green]	-20°C to 50°C	up to			58g
	24V AC/DC	64440075	Yellow Clear	max. 30mA max. 25mA	max.	[-4°F to 122°F]	100,000h	_	Polycarbonate	[2.05 oz]
		64450075	Blue	max. 25mA	500mA	IP65				
LED Permanent	0.41/0.0				_	11 00	up to			63g
Light Element	24VDC	64445055	Multi	max. 120mA			50,000h			[2.22 oz]
		64410067	Red			00°0 +- 50°0				
		64420067	Green			-20°C to 50°C [-4°F to 122°F]	up to			58g
	115VAC	64430067	Yellow	max. 20mA	_	[+1 (0 122 1]	100,000h	_	Polycarbonate	[2.05 oz]
		64440067	Clear			IP65	,			
		64450067	Blue							
		64412055	Red			-20°C to 50°C				
LED Flashing	0.41/D.0	64422055	Green	054	max.	[-4°F to 122°F]	up to	1Hz	Dalamata and	75g
Light Element	24VDC	64432055	Yellow	35mA	500mA		50,000h	on for 2x10 ms	Polycarbonate	[2.65 oz]
		64442055 64452055	Clear Blue			IP65				
		64310055	Red							
		64320055	Green			-20°C to 50°C				
	24VDC	64330055	Yellow	125mA	max.	[-4°F to 122°F]	up to 4,000,000	1Hz	Polycarbonate	73g
	24400	64340055	Clear	1231117	500mA	IDOS	flashes	on for 10 ms	1 Olycarbonaic	[2.57 oz]
Xenon Flashing		64350055	Blue			IP65				
Light Element		64310067	Red							
Ŭ		64320067	Green			-20°C to 50°C	un to			
	115VAC	64330067	Yellow	22mA	_	[-4°F to 122°F]	up to 4,000,000	1Hz	Polycarbonate	74g
		64340067	Clear			IP65	flashes	on for 10 ms	,	[2.61 oz]
		64350067	Blue			11 05				
		64411075	Red	max. 30mA						
		64421075	Green	max. 25mA]	-20°C to 50°C		411-		50-
	24V AC/DC	64431075	Yellow	max. 30mA	max. 500mA	[-4°F to 122°F]	up to 100.000h	1Hz on for 550 ms	Polycarbonate	58g [2.05 oz]
		64441075	Clear	max. 25mA	Joonna	IP65	100,00011	011 101 000 1113		[2.00 02]
LED Blinking		64451075	Blue	max. 25mA						
Light Element		64411067	Red			00°0 1- 50°0				
		64421067	Green			-20°C to 50°C [-4°F to 122°F]	up to	1Hz		58g
	115VAC	64431067	Yellow	max. 20mA	_	[7 1 10 122 1]	100,000h	on for 550 ms	Polycarbonate	[2.05 oz]
		64441067	Clear			IP65	,			
		64451067	Blue							
		64413075	Red			-20°C to 50°C				
LED Rotating	04/40/20	64423075	Green	40 .	max.	[-4°F to 122°F]	up to	120 rotations	Deless' :	67g
Light Element	24V AC/DC	64433075	Yellow	max. 40mA	500mA		100,000h	per minute	Polycarbonate	[2.36 oz]
		64443075	Clear			IP65				
		64453075	Blue							



	of Perm	Multi anent	i-Colo Light	Element
	Pin 1	Pin 2	Pin 3	Function
	24V	-	-	Red
	-	24V	-	Green
	24V	24V	-	Yellow
	-	-	24V	Blue
	24V	24V	24V	White
,	24V	-	24V	Violet
	-	24V	24V	Turquoise

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Bulbs for Incandescent Permanent Optical Element						
Part Number	Description	Wattage	Voltage	Life Duration		
95584035			24VDC			
95584038	incandescent light BA15d Bayonet	5W	230VAC	up to 5,000h		
95584057	Socket		115VAC	0,00011		

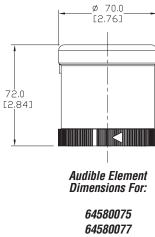
KS 71 Audible Elements Specifications

	KS 71 Audible Elements Specifications						
Part Number	64580075	64580077	64582075	64582067	64585055		
Description	Buzzer l	Buzzer Element		Multi-functional Sire	n		
Voltage	24V AC/DC 115VAC		24V AC/DC	115VAC	24VDC		
Current Consumption	≤ 25	5mA	≤ 80mA	≤ 40mA	≤ 80mA		
Tone Frequency	1.7	kHz	1.6 to 3.4 kHz				
Maximum Volume	85	dB	100dB				
Tone Type	Continuous/Po	ulse Selectable	8 tones selectable	Up to 7 tones externally triggered			
Life Duration			> 5000h				
Operating Temperature	-4°F to 122°F [-20°C to 50°C]						
Weight	74g [2.61 oz]	82g [2.89 oz]	82g [2.89 oz]	87g [3.07 oz]	77g [2.72 oz]		
Housing Material	Polycai	rbonate		ABS, Polycarbonate)		

Note: Refer to insert for wiring diagram.

Number of tones available are limited by number of elements in stack.

Dimensions in mm [in]



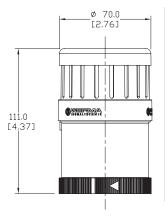
64582075

64582067

64585055

Siren element with self-adjusting sound output

- Automatic sound output adjustment between 80 and 100 dB
- Continual measurement of the ambient noise level
- Sound output is about 5 dB louder than the background noise level
- · Ideal for applications with changing ambient sound levels



	KS 71 Self-Adjusting Siren Element			
Part Number	Technical Specifications			
	Housing	Polycarbonate		
	Tone type	Pulse tone		
	Tone frequency	2.5 kHz		
	Sound output	80dB - max. 100dB		
64581055	Operating Voltage	24VDC		
04301033	Starting Current	< 500mA		
	Current consumption	≤ 150mA		
	Life Duration	> 5000h		
	Weight	125g [4.41 oz]		
	Temperature Range	-4°F to 122°F [-20°C to 50°C]		





The siren element adjusts its sound output through continual measurement of the ambient noise level. The emitted tone is about 5dB louder than the background noise level. The warning signal can always be heard without being irritatingly loud for people in the siren's vicinity.

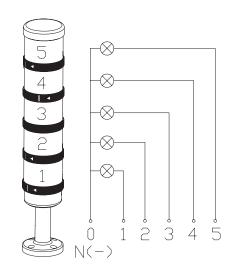
KS 71 Terminal Elements Specifications

KS 71 Terminal Element Specifications							
Part Number	64082000	64080000	64083000	64081000			
Description	Screw terminal element with cap and seal			Screwless terminal element with cap			
Mounting	Base and Brad	Base and Bracket Mounting Tube Mounting					
Connection	max. 2.5 mm ² - single wire M3 Clamps	max. 2.5 mm ² CAGE CLAMP® technology	max. 2.5 mm ² - single wire M3 Clamps	max. 2.5 mm ² CAGE CLAMP® technology			
Cable Entry	Cable diameter max. 14mm [0.55 in]						
Operating Temperature		-20°C to 50°C	[-4°F to 122°F]				
Torque	max 0.4 N⋅m	_	max 0.4 N·m	_			
Gauge	AWG 18 to AWG 14						
Weight	83g [2.93 oz]	75g [2.65 oz]	84g [2.96 oz]	77g [2.72 oz]			
Housing Material	Polyamide Glass Fiber-Reinforced						

Dimensions in mm [in]



Screw terminal element M3 clamps (including cap)

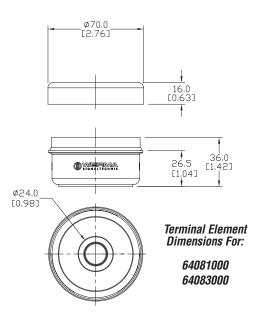


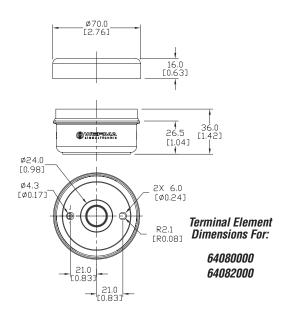




64080000

Terminal element with CAGE CLAMP® technology (including cap and seal)

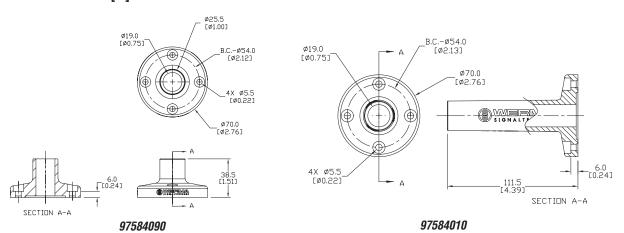


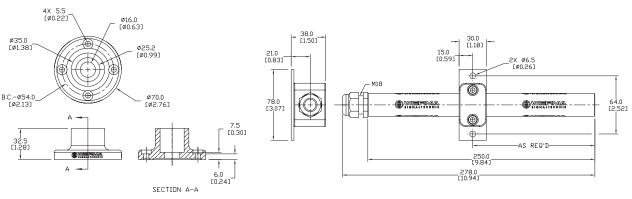


KS 71 Mounting Hardware Specifications

	KS	71 Mounting Hardwa	e Specifica	tions		Ø25,0
Part I	Number	Description	Operating Temp	Material	Weight	[Ø0.98]
	97584510	Tube, 100mm [3.94 in]			30g [1.06 oz]	
	97584025	Tube, 250mm [9.84 in]			73g [2.57 oz]	
	97584040	Tube, 400mm [15.75 in]	-20°C to 50°C	Anodized	120g [4.23 oz]	
	97584060	Tube, 600mm [23.62 in]	[-4°F to 122°F]	Aluminum	180g [6.35 oz]	
	97584080	Tube, 800mm [31.49 in]			236g [8.32 oz]	
	97584003	Tube, 1000mm [39.37 in]			296g [10.44 oz]	
	96000018	Tube with clamp	-	Polythylene Tube Steel Clamp	175g [6.17 oz]	100, 250, 400, [3.94] [9.84] [15.75] 600, 800, 1000
	97584010	Base with integrated tube	-20°C to 50°C [-4°F to 122°F]	Polyamide Glass- Reinforced	63g [2.22 oz]	[23.62] [31.49] [39.37]
4	97584090	Plastic base for 25mm [0.98 in] diameter tube	-20°C to 50°C [-4°F to 122°F]	Polyamide Glass- Reinforced	40g [1.41 oz]	
	97584091	Metal base for 25mm [0.98 in] diameter tube	-20°C to 50°C [-4°F to 122°F]	Anodized Aluminum	110g [3.88 oz]	
	96000031	Plastic tube for foldaway base	-20°C to 50°C [-4°F to 122°F]	Polyethylene	13g [0.46 oz]	

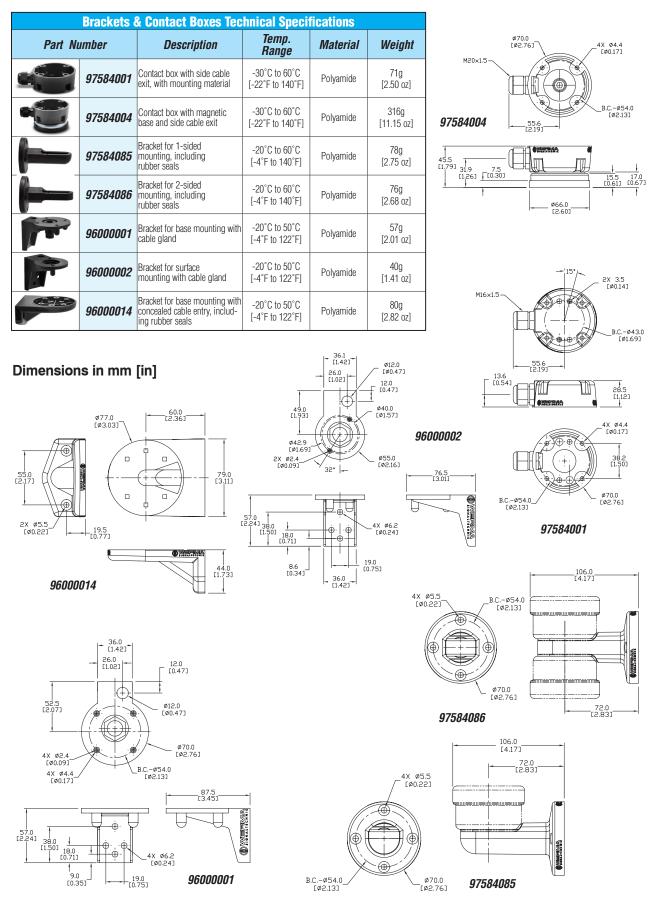
Dimensions in mm [in]





97584091 96000018

KS 71 Brackets & Contact Boxes Specifications



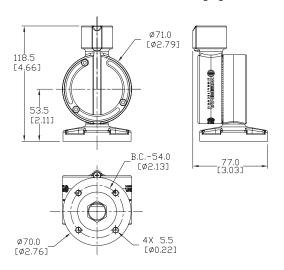
tPIL-172 1-800-633-0405

Foldaway Base for KS 71 and KS 50

- The signal tower can be folded away while still connected
- Minimizes packaging costs and optimizes machine transportation
- Simple mounting and cable entry for up to 14 mm diameter cables
- Vertical alignment of signal towers even on sloping surfaces
- Positioning in 7.5° steps, markings for 30, 45, 60, or 90 degrees

Foldaway Base for KS 71 and KS 50						
Part Number	1	Technical Specifications				
	Material	Polyamide Glass Fiber-Reinforced				
	Cable Diameter	Max. 14mm [0.55 in]				
96000030	Assembly	Includes rubber seals				
	Fixing	Vertical or horizontal positioning				
	Weight	165g [5.82 oz]				

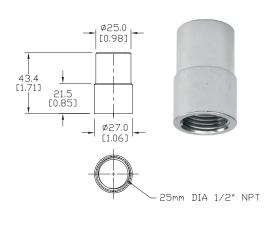
Dimensions in mm [in]



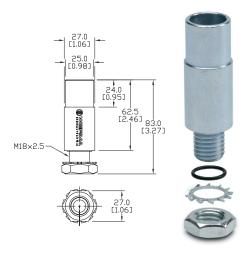
KS 71 Adapters Specifications

KS 71 Adapters Specifications							
Part Number	Temperature Range	Weight					
96000004	Cable gland for surface mounting	-20°C to 50°C [-4°F to 122°F]	10g [0.35 oz]				
96000025	Adapter for single hole mounting	-20°C to 50°C [-4°F to 122°F]	165g [5.82 oz]				
97584002	Adapter for tube mounting	-20°C to 50°C [-4°F to 122°F]	81g [2.86 oz]				

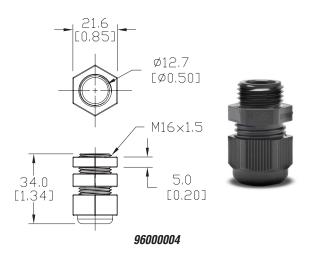
Dimensions in mm [in]



97584002



96000025



tPIL-174 1-800-633-0405

KS 71 Pre-assembled Stacklights



KombiSIGN 71 Pre-assembled Stacklights Features

- Available in common voltages of 24V AC/DC and 115VAC
- LED Permanent Optical Elements
- 70mm diameter/base mount models
- Polycarbonate lens material
- Polyamide glass fiber-reinforced terminal element with cage clamp.

KS 71 Pre-assembled Stacklights									
Part Number	Voltage	Colors	Current	Starting Current	Operating Temp	Life Duration	Weight q [oz]	Price	
64924001	115VAC	Green,	max. 20mA	-	[-4°F to 122°F]	Up to 100,000h	249 [8.78]	\$210.00	
64924002	24V AC/DC	yellow, red	max. 25mA	max. 500mA				\$165.00	
64924003	115VAC	Green,	max. 20mA	-			191 [6.74]	\$155.00	
64924004	24V AC/DC	red	max. 25mA	max. 500mA				\$135.00	



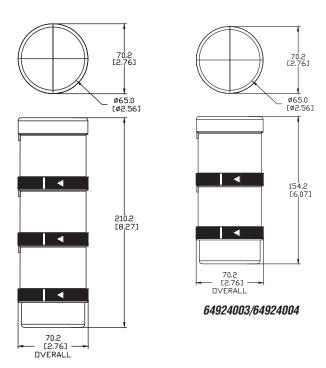
64924003/64924004

649240	01/6	1021	กกว
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Components for KS 71 Pre-assembled Stacklights							
lmage							
Part Number	97584001	97584085	97584086	96000002			
Price	\$17.25	\$12.75	\$14.00	\$15.00			
General Description	Contact box with side cable exit, with mounting material	Bracket for 1-sided mounting, including rubber seals	Bracket for 2-sided mounting, including rubber seals	Bracket for surface mounting with cable gland			
Specifications & Dimensions	See Catalog Book 2 page 172	See Catalog Book 2 ppage 172	See Catalog Book 2 page 172	See Catalog Book 2 page 172			

Note: Please see our website www.AutomationDirect.com for the most current pricing, specifications, and engineering drawings.

Dimensions in mm [in]



64924001/64924002

Configuring Your KombiSIGN 50 Stack Light

▶ STEP 1

Select the required optical elements for your application

▶ STEP 2

Select the optional audible element for your application



▶ STEP 3

Select the terminal element for your mounting option (includes cap)



Terminal element for surface, tube, single hole and bracket mounting

Order no. **84500000**

▶ STEP 4

Select the appropriate mounting option and accessories



Bracket for wall mounting

Order no. **97584502**



Base/Bracket

Base for surface mounting, incl. rubber seal

Order no. **97584501**

Tube Mounting

Tube Ø 25mm, all anodized Order no. 100mm long **97584510**

250mm long 97584025 400mm long 97584040 600mm long 97584060 800mm long 97584080 1000mm long 97584003

Base for Tube, plastic Order no. **97584090**

Base for Tube, metal Order no. **97584091**

Foldaway Base Order no. **96000030**



▶ STEP 5

Where appropriate, select the bracket and the contact box



Contact box with side cable exit Order no. **97584001**



Contact box with magnetic base and side cable exit Order no. **97584004**



Bracket for base mounting with concealed cable entry Order no. **96000014**



Bracket for base mounting Order no. **96000001**

KS 50 Elements Quick Selection Guide

STEP 1 - O	otical Eleme	nts	Quick S	election Gu	iide
Type of Light	Part Number		Color	Operating Voltage	Price
	84610000		Red		\$20.00
Incondoceant	84620000		Green		\$20.00
Incandescent Permanent*	<i>84630000</i>		Yellow	12-240V AC/DC	\$20.00
r GillialiGill	84640000		Clear	110/00	\$20.00
	84650000		Blue		\$20.00
	95584035		Clear	24VDC	\$7.25
Bulbs	95584038	11	Clear	230VAC	\$7.25
	95584057	8	Clear	115VAC	\$7.25
LED Permanent	84810055		Red		\$63.00
	84820055		Green		\$63.00
	84830055		Yellow	24V AC/DC	\$63.00
	84840055		Clear		\$98.50
	84850055		Blue		\$98.50
	84810067		Red		\$74.00
	84820067		Green	115VAC	\$74.00
	84830067		Yellow		\$74.00
	84840067		Clear		\$83.00
	84850067		Blue		\$109.00
	84811075		Red		\$63.00
	84821075		Green		\$63.00
	84831075		Yellow	24V AC/DC	\$63.00
	84841075		Clear		\$98.50
LED	84851075		Blue		\$98.50
Blinking Light	84811067		Red		\$74.00
	84821067		Green		\$74.00
	84831067		Yellow	115VAC	\$74.00
	84841067		Clear		\$83.00
	84851067		Blue		\$109.00
LED Flashing Light	84812055		Red		\$128.00
	84822055		Green		\$170.00
	84832055		Yellow	24VDC	\$128.00
Element	84842055		Clear		\$170.00
	84852055		Blue		\$170.00
* Note: Bulbs are re	quired for perma	nent	incandesc	ent optical eler	nent



KS 50 LED Light Element

STEP 2 - Audible Elements Quick Selection Guide							
Part Number	Description	Voltage	Tone Frequency	Maximum Volume	Price		
84900075	- Buzzer element	24V AC/DC	2.1 kHz	80dB	\$55.00		
84900077		115V AC/DC			\$58.00		

STEP 3 - Terminal Element Quick Selection				
Part Number	Description	Mounting	Price	
84500000	Screw terminal element for KS 50	Surface, tube, single hole, and bracket mounting	\$27.00	

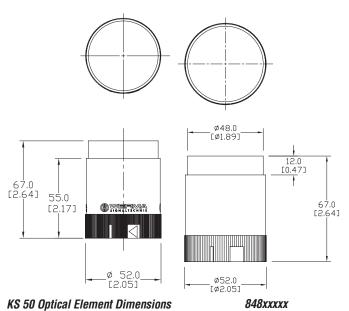
STEP 4 - Mounting Options/Accessories Quick Selection				
Part Number	Description	Price		
97584510	Annodized tube, 100mm [3.94 in] long	\$11.75		
97584025	Annodized tube, 250mm [9.84 in] long	\$14.00		
97584040	Annodized tube, 400mm [15.75 in] long	\$19.00		
97584060	Annodized tube, 600mm [23.62 in] long	\$25.50		
97584080	Annodized tube, 800mm [31.49 in] long	\$32.25		
97584003	Annodized tube, 1000mm [39.37 in] long	\$43.75		
97584090	Plastic base for 25mm [0.98 in] diameter tube	\$12.00		
97584091	Metal base for 25mm [0.98 in] diameter tube	\$19.00		
96000030	Foldaway base for 25mm [0.98 in] diameter tube	\$50.25		
97584501	Base for surface mounting, includes rubber seal	\$13.50		
97584502	Bracket for wall mounting	\$20.00		
97584503	Adapter for single hole mounting	\$17.75		

STEP 5 - Contact Boxes & Brackets Quick Selection			
Part Number	Description	Price	
97584001	Contact box with side exit cable	\$17.25	
97584004	Contact box with magnetic base and side exit cable	\$46.25	
96000014	Bracket for base mounting with concealed cable entry	\$18.75	
96000001	Bracket for base mounting	\$15.00	

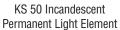
KS 50 Optical Elements Specifications

			KS 50 (Optical Eleme	nts Techr	nical Specification	ons			
Description	Operating Voltage	Part Number	Color	Current Consumption	Starting Current	Operating Temp/ Protection	Life Duration	Flash Frequency	Housing Material	Weight
		84610000	Red							
	12-240V	84620000	Green	Depends on bulb		-20°C to 50°C				40
Incandescent Permanent Light	AC/DC (bulb sold	84630000	Yellow	selection. (bulb	-	[-4°F to 122°F]	up to 5,000h	-	Polycarbonate	40g [1.41 oz]
r omnanone zigne	separately)	84640000	Clear	sold separately)						[1.11 02]
		84650000	Blue							
		84810055	Red							
		84820055	Green			-20°C to 50°C				
	24V AC/DC	84830055	Yellow	max. 45mA	max. 500mA	[-4°F to 122°F]	up to 100.000h	-	Polycarbonate	45g [1.59 oz]
		84840055	Clear		JUUITIA	IP54	100,00011			[1.00 02]
LED Permanent		84850055	Blue							
Light Element		84810067	Red							
3		84820067	Green			-20°C to 50°C				
	115VAC	84830067	Yellow	max. 25mA	-	[-4°F to 122°F]	up to 100,000h	-	Polycarbonate	45g [1.59 oz]
		84840067	Clear			IP54	100,00011			
		84850067	Blue							
		84811075	Red		max. 500mA	-20°C to 50°C [-4°F to 122°F]		1Hz on for 550ms	Polycarbonate	45g [1.59 oz]
		84821075	Green				up to 100,000h			
	24V AC/DC	84831075	Yellow	max. 25mA						
		84841075	Clear			IP54	100,00011			
LED		84851075	Blue							
Blinking Light Element		84811067	Red							
Lioinione		84821067	Green			-20°C to 50°C				
	115VAC	84831067	Yellow	max. 25mA	-	[-4°F to 122°F]	up to 100.000h	1Hz on for 550ms	Polycarbonate	45g [1.59 oz]
		84841067	Clear			IP54	100,00011	011101 0001113		[1.03 02]
		84851067	Blue							
		84812055	Red	45mA						
LED		84822055	Green	40mA		-20°C to 50°C	_			
Flashing Light	24VDC	84832055	Yellow	45mA	max. 500m∆	x. [-4°F to 122°F]	up to 50,000h	1Hz on for 10ms	Polycarbonate	56g [1.98 oz]
Element		84842055	Clear		- 500mA	IP54	50,00011	on for 10ms		
		84852055	Blue	40mA						

Dimensions in mm [in]







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	Bulbs for Ir Permanent 0			
Part Number	Description	Wattage	Voltage	Life Duration
95584035	Bulb for		24VDC	
95584038	Incandescent Light	5W	230VAC	up to 5,000h
95584057	BA15d Bayonet Socket		115VAC	0,00011

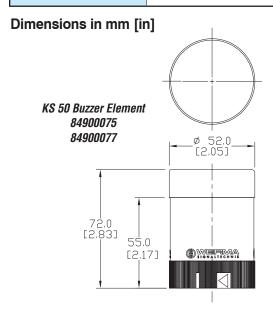
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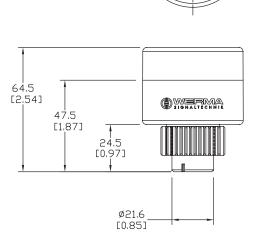
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KS 50 Audible and Terminal Elements

KS 50 Audible El	ements Specific	ations							
Part Number	84900075	84900077							
Voltage	24V AC/DC	115V AC/DC							
Current Consumption	max. 25mA								
Tone Frequency	2.1 kHz								
Maximum Volume	80dB								
Tone Type	Continuous/Puls	e Tone Selectable							
Life Duration	min. 5	5,000h							
Duty Cycle	10	0%							
Operating Temperature	-4°F to 122°F	[-20°C to 50°C]							
Weight	54g [1	.90 oz]							
Housing Material	PC/ABS, PC	C blend (cap)							
Dome Material	PC/ABS,	PC blend							

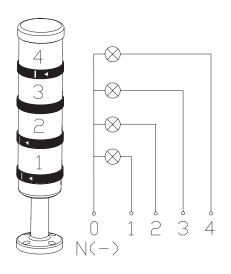
KS 50 Terminal E	lement Specifications
Part Number	84500000
Description	Terminal with screw connector
Mounting	Tube, bracket, base, and single hole mounting
Connection	max. 1.5 mm ² - Single Wire
Operating Temperature	-4°F to 122°F [-20°C to 50°C]
Gauge	AWG18 to AWG14
Weight	93g [3.28 oz]
Cap Material	Polycarbonate
Base Material	Polyamide + PC/ABS





KS 50 Terminal Element

84500000

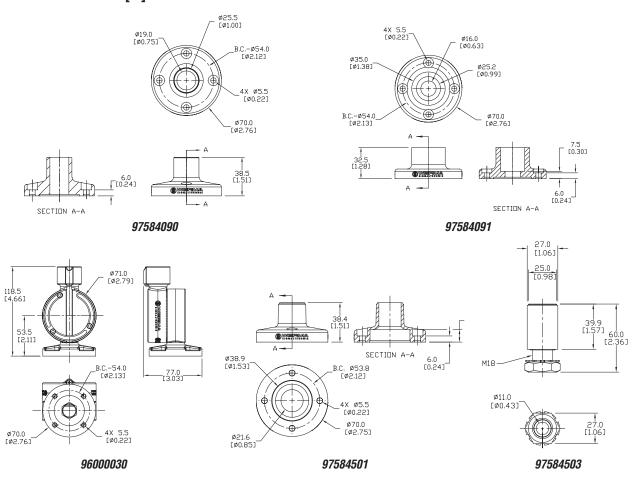




KS 50 Mounting Hardware and Accessories

	KS 50	Mounting Hardware and	Accessories Spe	cifications	
Part I	Number	Description	Operating Temp.	Material	Weight
	97584510	Tube, 100mm [3.94 in]			30g [1.06 oz]
	97584025	Tube, 250mm [9.84 in]			73g [2.57 oz]
	97584040	Tube, 400mm [15.75 in]	-20°C to 50°C	Anodized aluminum	120g [4.23 oz]
	97584060	Tube, 600mm [23.62 in]	[-4°F to 122°F]	AHOUIZEU ZIUITIITUM	180g [6.35 oz]
	97584080	Tube, 800mm [31.49 in]			236g [8.32 oz]
	97584003	Tube, 1000mm [39.37 in]			296g [10.44 oz]
	97584090	Plastic base for 25mm [0.98 in] diameter tube	-20°C to 50°C [-4°F to 122°F]	Polyamide Glass Reinforced	40g [1.41 oz]
	97584091	Metal base for 25mm [0.98 in] diameter tube	-20°C to 50°C [-4°F to 122°F]	Annodized Aluminum	110g [3.88 oz]
5	96000030	Foldaway base for 25mm [0.98 in] diameter tube	_	Polyamide Glass Reinforced	165g [5.82 oz]
	97584501	Base for surface mounting, includes rubber seal	-20°C to 60°C [-4°F to 140°F]	Polyamide Glass Reinforced	35g [1.23 oz]

Dimensions in mm [in]

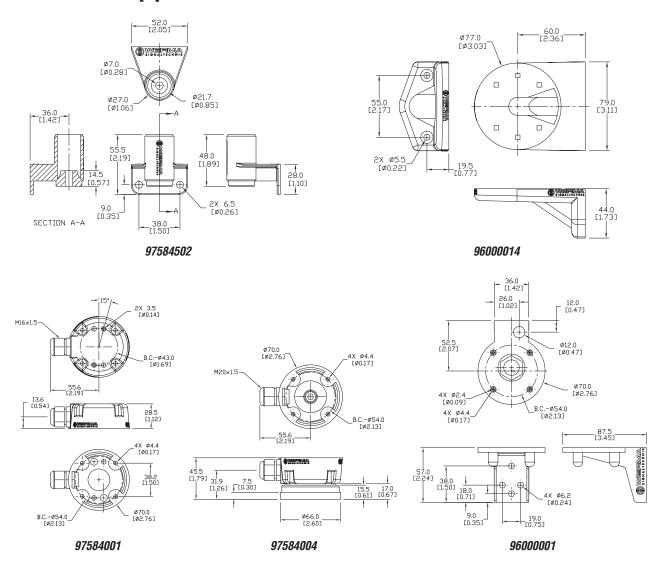


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KS 50 Contact Boxes and Brackets

	Brack	ets & Contact Boxes Tec	chnical Speci	fications	
Part N	lumber	Description	Temp. Range	Material	Weight
	97584502	Bracket for wall mounting	-20°C to 60°C [-4°F to 140°F]	Polyamide	30g [1.06 oz]
	96000014	Bracket for base mounting with concealed cable entry	-20°C to 60°C [-4°F to 140°F]	Polyamide	80g [2.82 oz]
	96000001	Bracket for base mounting	-20°C to 50°C [-4°F to 122°F]	Polyamide	57g [2.01 oz]
	97584001	Contact box with side cable exit	-20°C to 60°C [-4°F to 140°F]	Polyamide	71g [2.50 oz]
	97584004	Contact box with magnetic base and side cable exit	-20°C to 60°C [-4°F to 140°F]	Polyamide	316g [11.15 oz]

Dimensions in mm [in]



FlatSIGN Signal Lights

WERMA FlatSIGN Features

- Industrial signal light
- Red/Yellow/Green LEDs
- Permanent or blinking (DIP switch selectable)
- 160-degree viewing angle
- Wall mount installation
- Audible alert option with 8 DIP switch-selectable tones (DC models) or continuous (AC models)
- 2 year warranty



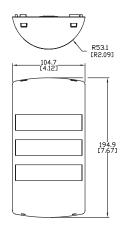


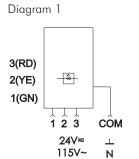
				691 Se	ries Fla	tSIGN Techn	ical Spec	ifications				
Description	Voltage	Part Number	Price	Housing Color		Operating	Life Duration	Housing Material	Weight	Wiring Diagram	Connection	Agency Approval
						Base Mou	nt					
	24V AC/DC	69110055	\$132.00	Transparent								
Permanent or blinking LED		69130055	\$187.00	Silver	30mA per tier	-30°C - +50°C (-22°F - +122°F) IP65	max. 50,000h	PC transparent or coated cap/ PC/ABS blend housing	230g [8.11 oz]	Diagram 1		
DIIIIKIIIG LLD	115-230 VAC	69110068	\$132.00	Transparent							Membrane grommet Cable diameter max. 13mm Terminal screw	
		69130068	\$187.00	Silver								UL file E164155,
Permanent or blinking LED	24V	69120055	\$159.00	Transparent	p = 1 1 1 1	when mounted						CE, RoHŠ
Audible alert (8 selectable tones, 80dB at 1 meter	AC/DC	69140055	\$221.00	Silver					235g		0.5 -1.5 mm ²	
Permanent or blinking LED	115-230	69120068	\$159.00	Transparent					[8.29 oz]	Diagram 2		
Audible alert (continuous tone, 80dB at 1 meter)	VAC	69140068	\$221.00	Silver								

Note: Refer to insert for audible tone frequencies.

Dimensions mm [in]

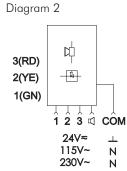
74.0 (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (2.91) (3.91) (4.91) (5.91) (5.91) (6.91) (7.91)





230V~

Schematics



691xxxxx

tPIL-182 1-800-633-0405

WERMA Signaling Overview



Description

WERMA offers a wide range of signaling devices for either installation panel or surface mount applications. Modern designs and the latest LED technology provide exceptionally clear and bright signalling.

Installation Beacons and Audible Signal Devices

WERMA installation beacons are designed for mounting in panels or enclosures. A characteristic of this beacon type is that the rear fixture uses a central nut.

- Permanent, blinking, flashing, or LED beacons
- High protection rating IP65
- Beacons in 29, 57/58, and 75mm beacon diameters
- · Audible modules with sight/sound combinations
- Signal modules come in common voltages (24V AC/DC, 115VAC, and 230VAC)
- Five colors
- For installation in 22.5 or 34mm cutouts

Freestanding Beacons

WERMA freestanding beacons offer a range of modules including: permanent, blinking, flashing, LED EVS, and LED rotating.

- · Base, bracket or tube mounting
- Incandescent, LED, or Xenon light sources
- · High protection rating IP65
- 57/58/75/98mm beacon diameters available
- Tall lens option available
- Signal modules in common voltages (24V AC/DC, 115VAC, and 230VAC)
- Five colors available

Beacon Accessories

Accessories for installation and freestanding beacons:

- Tube adapter, mounting base, surface-mounting enclosures, washers, for installation beacons
- Wire guard, wallmount bracket, bracket, base and tube, and cable gland for freestanding beacons





How to Select your WERMA Signal Device



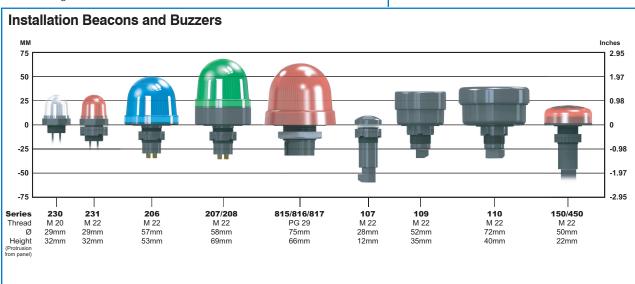
▶ STEP 1

Select the required panel or freestanding beacon or buzzer for your application

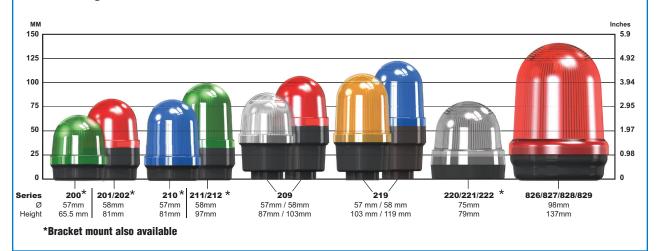


▶ STEP 2

Select the required beacon height/depth for your application from either the panel beacons and buzzers or free-standing beacons.



Freestanding Beacons



tPIL-184 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

How to Select your **WERMA Signal Device**



▶ STEP 3

Select the correct mount for your application

Panel Mounting

Series: 230, 231, 206, 207, 208

PG 29 Mounting

Series: 815, 816, 817

Base Mounting

Series: 200, 201, 202, 210, 211, 212, 220, 221, 222, 826, 827, 828, 829

Bracket Mounting

Series: 203, 204, 205, 213, 214, 215, 223, 224, 225

Tube Mounting

Series: 209, 219

▶ STEP 4

Where appropriate, select a mounting accessory for your PG29, base-mounted, or tube-mounted beacon.



Anti-twist washer for beacons with 37mm PG29 mounting Order no.

97581522



Tube adaptor for heacons with 37mm PG29 Mounting Order no.

97581201



Galvanized Wire Guard - for use with 826, 827, 828 and 829 series industrial signal beacons Order no.

97582603



Plastic Bracket for wall mounting - for use with 826, 827, 828 and 829 series industrial signal beacons.

97582605

Order no.



Plastic Base with integrated tube for use with 209 and 219 series beacons Order no

97520901



Cable gland (M25x1.5, plastic) for use with 209 and 219 series industrial signal beacons Order no.

97520902



Surface mounting enclosure for 1 beacon with 37mm PG29 mounting Order no 97581503



Surface mounting enclosure for 2 beacons with 37mm PG29 Mounting Order no. 97581507

Surface mount-

ing enclosure for 3 beacons with 37mm PG29 Mounting Order no. 97581508



Surace mounting base for beacons with 37mm PG29 Mounting Order no.

97581202

Tube Ø 25mm, all anodized

Order no. 100mm long 97584510

250mm long 97584025 400mm long 97584040 600mm long 97584060 800mm long 97584080

1000 mm long 97584003



Base for Tube, metal Order no. 97584091



Tube Ø 25mm, plastic, only for Foldaway Base, 45mm long Order no. 96000031





Contact box with side cable exit



Contact box with magnetic base and side cable exit Order no. 97584004



Bracket for tube mounting Order no. 96000001







Bracket for base mounting with concealed cable entry Order no. 96000014



29mm Beacons with Permanent LED Indicator



29mm Beacon Features

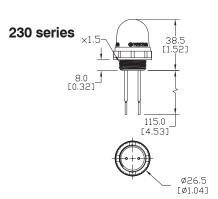
- High-intensity LED permanent beacon
- Mounting for either 22.5 mm panel mount or M20 thread for use with limit and cable-operated switches
- Lock nut included with 22.5 mm models
- Mostly sideways illumination
- Rubber seal included
- 2 year warranty

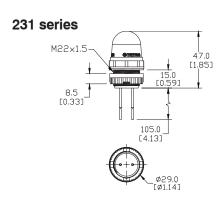


							COMPLIANT					
		230 and 23 1	Series	Beac	ons wit	h Permai	nent LED Indica	tor Tech	nical Spec	ificatio	ins	
Description	Voltage	Part Number	Price	LED Color	Current	Starting Current	Operating Temp /Protection	Life Duration	Housing Material	Weight	Connection	Agency Approvals
	230 Series 20mm x 1.5 Threaded Base											
		23010055	\$57.00	Red								
		23020055	\$93.50	Green							M20 x 1.5 20.5 mm	
	24VDC	23030055	\$57.00	Yellow	< 45mA	$\leq 0.5 \text{ A}$		up to 100,000h	 Polycarbonate		Threaded base	
		23040055	\$93.50	Clear			-4°F to 122°F		cap ABS/ Polycarbonate blend, Black base		Does not	cULus file E164155,
LED Permanent		23050055	\$93.50	Blue			[-20°C to 50°C]			12g	include lock nut	
Light		23010067	\$68.50	Red	< 15mA		IP65			[0.42 oz]	2 wires,	CE, RoHS
	115VAC	23020067	\$107.50	Green			11 00				approximately	
		23030067	\$68.50	Yellow		-					115mm long 20AWG	
		23040067	\$107.50	Clear							(0.5 mm ²)	
		23050067	\$107.50	Blue								
					231 S	eries 22.5	5 mm Panel Mou	nt				
		23110055	\$55.50	Red								
		23120055	\$90.50	Green							M22 x 1.5	
	24VDC	23130055	\$55.50	Yellow	< 45mA	$\leq 0.5 \text{ A}$			Polycarbonate		22.5 mm	
		23140055	\$89.00	Clear			-4°F to 122°F		cap		Panel mount	
LED Permanent		23150055	\$89.00	Blue			[-20°C to 50°C]	up to	ABS/	16g	2 wires.	cULus file E164155,
Light		23110067	\$66.50	Red			IP65	100,000h	Polycarbonate	[0.56 oz]	approximately	CE, RoHS
		23120067	\$104.00	Green			COAI		blend, Black base		105mm long	
	115VAC	23130067	\$66.50	Yellow	< 15mA	-			DIAUK DASE		20AWG (0.5 mm ²)	
		23140067	\$104.00	Clear							(0.5 1111115)	
		23150067	\$104.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

Dimensions mm [in]





Please see our website www.AutomationDirect.com for complete engineering drawings.

tPIL-186 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



57/58 mm Panel Mount Beacons

57/58 mm Beacon Features

- Available in permanent Incandescent or LED, and Xenon flashing models
- 360° visibility
- For use in 22.5 mm standard control panel holes
- Connection by 6.3mm x 0.8mm spades
- Finger-proof when used with insulated spades
- Changeable bulb for incandescent models not included
- · Lock nut and rubber seal included
- 2 year warranty







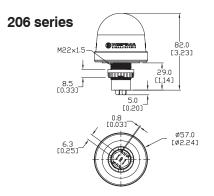
	206	, 207 a	nd 20	8 Series	57/58 m	m Beacons Tec	hnical S	pecificatio	ons		
Voltage	Part Number	Price	Lamp Color	Current	Starting Current	, , ,		Housing Material	Weight	Connection	Agency Approvals
					22.5 mm	Panel Mount					
	20610000	\$28.50	Red					Polycarbonate		22.5 mm	
	20620000	\$28.50	Green			-4°F to 122°F		cap	20-		cULus file
max. 48V	20630000	\$28.50	Yellow	selection.	_	[-20 0 to 50 0]	selection.	Polyamide			E164155,
	20640000	\$34.00	Clear			IP65		fiberglass	[1.00 02]	6.3 mm spade	RoHS
	20650000	\$34.00	Blue	, ,,				Black base		COLLIGOTOL	
	<i>20710075</i>	\$63.50	Red					Polycarbonate			
241/	20720075	\$63.50	Green				un to	cap	56a		
AC/DC	20730075	\$63.50	Yellow	< 45mA	≤ 0.5 A	[-20 0 to 30 0]		Polyamide			
						IP65	,	fiberglass			
								Black base		Panel Mount	cULus file E164155, CE, RoHS
				< 25mA		_4°F to 122°F		Polycarbonate		6.3 mm spade	
_					_		un to		connector		
115VAC							100,000h	Polyamide	[1.98 oz]		
								fiberglass			
		• • • • • • • • • • • • • • • • • • • •				-4°F to 122°F					
041/00				. 100m 1	< 0.F.A	[-20°C to 50°C]		July	74g		
24700				< TUUTIA	≥ 0.5 A	ID05	11031103	Polyamide	[2.61 oz]	22.5 mm	
						IP65				Panel Mount	cULus file
											E164155,
}						-4°F to 122°F	4.406	cap		6.3 mm spade	CE, RoHS
115VAC				< 25mA	_	[-20°C to 50°C]	4 x 10° flashes		74g	OUTITIOUTUI	
1101110		\$99.00	Clear	- 1		IP65		Polyamide [2.61 oz]			
ŀ		\$99.00	Blue					Black base			
	max. 48V	Max. 48V 20610000 20620000 20640000 20650000 20710075 20720075 20730075 20740075 20720067 20740067 20740067 20740067 20740067 20820055 20840055 20820067 20820067 20820067	Voltage Part Number Price Voltage Part Number Price 20610000 \$28.50 20620000 \$28.50 20640000 \$34.00 20650000 \$34.00 2070075 \$63.50 20720075 \$63.50 20740075 \$105.50 20750075 \$105.50 20710067 \$73.00 20720067 \$69.00 20740067 \$115.00 20750067 \$115.00 20750067 \$99.00 20820055 \$99.00 20840055 \$99.00 20850055 \$99.00 20820067 \$99.00 20820067 \$99.00 20820067 \$99.00 20820067 \$99.00 20840067 \$99.00 20840067 \$99.00 20840067 \$99.00	Voltage Part Number Price Lamp Color Max. 48V 20610000 \$28.50 Red 20620000 \$28.50 Green 20630000 \$28.50 Yellow 20640000 \$34.00 Clear 20650000 \$34.00 Blue 20710075 \$63.50 Red 20720075 \$63.50 Yellow 20740075 \$105.50 Clear 20750075 \$105.50 Blue 20750075 \$105.50 Green 20740067 \$73.00 Red 20720067 \$69.00 Green 20730067 \$69.00 Green 20740067 \$115.00 Clear 20750067 \$115.00 Blue 20820055 \$99.00 Green 20840055 \$99.00 Clear 20840055 \$99.00 Clear 20850055 \$99.00 Clear 20820067 \$99.00 Green 20820067 <	Part Number Price Lamp Color	Part Number	Part Number Price Lamp Color Current Current Current Protection	Voltage	Voltage Part Number Price Lamp Current Starting Current Protection Duration Material	Voltage Part Number Price Lamp Color Current Current Current Current Current Protection Protection Duration Material Weight	Voltage Part Number Price Lamp Number Price Color Current Current Current Current Protection Protection Duration Material Weight Connection

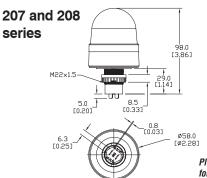
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

Bulbs 1	or Inca	andescent Perma	nent Op	tical Ele	ment
Part Number	Price	Description	Wattage	Voltage	Life Duration
95584035	\$7.25	Bulb for Incandescent Light BA15d Bayonet Socket	5W	24VDC	up to 5,000h



Dimensions mm [in]





Please see our website www.AutomationDirect.com for complete engineering drawings.



75mm Beacons (PG29 Mount)

75mm Beacon Features

- Choose from blinking, rotating or permanent LED models, flashing Xenon model, or permanent Incandescent model
- · Light-intensive Xenon flash in flash models
- High-impact polycarbonate lens (up to 20 joules)
- · Various mounting accessories available
- Bulb not included with incandescent models
- Tamper-proof bulb change via rear access with bayonet mechanism on incandescent bulbs only
- 2 year warranty

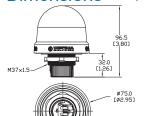






Number N										COMPLIANT			
Number N			81	5, 816	and	817 Seri	es 75mm	Beacons Techn	ical Spe	cification	S		
12-240V 81510000 37.00 Red 81520000 37.00 Green 181530000 37.00 Green 18150005 579.00 Green 24VDC 115 VAC 81620055 579.00 Vellow 81620057 579.00 Vellow 81620055 579.00 Vellow 81700055 579.00 Vellow 81	Description	Voltage		Price	Color	Current					Weight	Connection	Agency Approvals
Depends on bull of both permanent Light Depends on bull of beings on beings of b							37mm (PG29 Mount)					• •
Parametent Light Section Sec		12-240V	81510000	\$37.00	Red								
Permanent Clight Clight Standard S	Incandescent	Depends	81520000	\$37.00	Green						00-		
Club Sold \$81540000 \$43.50 Clear \$81540000 \$43.50 Clear \$81540005 \$79.00 Red \$81540055 \$79.00 Red \$81620055 \$79.00 Red \$81620055 \$79.00 Red \$81620055 \$79.00 Red \$81620055 \$134.00 Clear \$25mA \$81610067 \$93.00 Red \$1650067 \$146.00 Clear \$81620067 \$93.00 Red \$1620067 \$146.00 Clear \$1620055 \$129.00 Clear \$162055 \$129.00 Clear \$1620555 \$129.00 Clear \$1620555 \$129.00 Clear \$1620555 \$129.00 Clear		on bulb selection		\$37.00	Yellow	selection.	_	[-20 6 10 60 6]					
B150005 \$79.00 Red \$160055 \$79.00 Red \$160055 \$79.00 Red \$160055 \$79.00 Clear \$1600055 \$134.00 Clear \$1600055 \$134.00 Clear \$1650055 \$129.00 Red \$1650055 \$129.00 Red \$1651055 \$129.00 Red \$1620055 \$129.00	Light	(bulb sold			Clear			IP65			[0.00 02]	1	
Red		separately)				ooparatory)							
LED Permanent Light 115 MC MC MC MC MC MC MC M					Red								
AC/DC 81630055 \$134.00 Clear < 25mA 81610067 \$33.00 Red 31620067 \$33.00 Red 31620067 \$33.00 Select 4005 3164005 \$146.00 Clear 31650067 \$146.00 Clear 31650067 \$146.00 Clear 31650067 \$146.00 Clear 31651055 \$129.00 Red 31641055 \$1		0.4\/			Green	< 45mA							
LED Permanent Light R1620055 \$134.00 Clear C45mA C15mA		AC/DC			Yellow		≤ 0.5 A						
Permanent Light Reference Referenc	LED												
Light 115 VAC 81620067 \$93.00 Red 81640067 \$93.00 Green 81640067 \$146.00 Clear 81650067 \$146.00 Clear 81651055 \$129.00 Clear 81631055 \$129.00 Clear \$129.00 Clear \$164155 \$129						< 45mA							
115 VAC 81630067 \$146.00 Clear 81640067 \$146.00 Clear 81650067 \$146.00 Clear 81651055 \$129.00 Red S1691055 \$129.00 Clear S1691055 Clear S16910555 Clear S16910555 Clear S16910555 Clear S16910555 Clear S16910555 Clear S169105555 Clear S1691055555555555555555555555555555555555													
Binking Light (120 rotations/min flashing Light (11½ flash frequency) Mark (11½ flash flash flash (11½ flash fl		115 VAC											
LED Blinking Light (1Hz flash frequency) LED Rotating Light (1Hz flash frequency) LED Safe (1955) Si29.00 Green Safe (1950) Si29.00 Gre							_						cULus file E164155, CE, RoHS
LED Blinking Light (1Hz flash frequency) Mathematical Productions													
LED Blinking Light (120 rotations/min flash frequency) 24V Xenon Flashing Light (112 flash frequency) 24V 316730055 \$12.00 \$10.00 \$1						< 25mA				cap ABS/ Polycarbonate	[3.77 oz]	mount Terminal M3 ≤ 2.5 mm²	
Light (1Hz flash frequency) LED Rotating Light (120 rotations/min flash frequency) Xenon Flashing Light (1Hz flash flas						CEOTIFY			100,000n				
CE, RoHS													
Frequency 24V 81651055 \$235.00 Blue													
LED Rotating Light (120 70tations/min flash frequency) Xenon Flashing Light (1Hz flash frequency) 115VAC 81613055 \$129.00 Steel													
Rotating Light (120 Rotations/min flash frequency) Rotations/min flash flash flash frequency) Rotations/min flash flas	oquooy)							[-20°C to 50°C]		Dase			
Rotating		AU/DU				. 40m 1		IP65					
rotations/min flash frequency) 81643055						< 40111A		55					
flash frequency) 81653055 \$216.00 Blue < 40mA 81710055 \$119.00 Green 81740055 \$119.00 Clear Flashing Light (1Hz flash frequency) 115VAC 81730067 \$117.00 Clear 81740067 \$119.00 Clear 81740067 \$117.00 Clear 81740067 \$117.0						, 70m A							
Xenon Flashing Light (1Hz flash frequency) 115VAC 81730067 \$117.00 \$119.00 Clear													
Xenon Flashing Light (1Hz flash frequency)					_	< 40IIIA	≤ 0.5 A						
Xenon Flashing Light (1Hz flash frequency) 81730055 \$119.00 Yellow 81740055 \$124.00 Clear \$119.00 Red 81720067 \$119.00 Red 81720067 \$117.00 Green 81730067 \$117.00 Yellow 81740067 \$119.00 Clear \$81740067 \$119.00 C													
Name		24VDC				< 125mA							
Flashing Light (1Hz flash frequency)	Xenon	21100				\ 12011/1\					[4.09 oz]		
Light (1Hz flash frequency) 81720067 \$119.00 Red 81720067 \$117.00 Green 115VAC 81730067 \$117.00 Yellow 81740067 \$119.00 Clear 422mA									4 000 000				
81720067 \$117.00 Green 115VAC 81730067 \$117.00 Yellow 81740067 \$119.00 Clear													
115VAC 81730067 \$117.00 Yellow < 22mA 108g [3.81 oz]	,												
81740067 \$119.00 Clear	пеционоу)	115VAC				⊣							
							< 22mA				[3.81 oz]		
81750067 \$119.00 Blue					Blue								

Dimensions mm [inches]



	Bulbs for Incandescent Permanent Optical Element											
Part Number	Price	Description	Wattage	Voltage	Life Duration							
95584035	\$7.25	Bulb for		24VDC								
95584038	\$7.25	Incandescent Light	5W	230VAC	up to 5,000h							
95584057	\$7.25	BA15d Bayonet Socket		115VAC								

section on the specific part number's web page at www.AutomationDirect.com

To obtain the most current agency approval information, see the Agency Approval Checklist



Please see our website www.AutomationDirect.com for complete engineering drawings.

1 - 8 0 0 - 6 3 3 - 0 4 0 5 tPIL-188 **Pilot Devices**



57/58 mm Base Mount Beacons

57/58 mm Beacon Features

- Choose from permanent incandescent, permanent LED, or flashing Xenon model
- Base mount installation
- 57 and 58mm diameters
- Light-intensive Xenon flash in flash models
- Bulb not included on incandescent models
- 2 year warranty





	200, 201, and 202 Series Beacons Technical Specifications											
Description	Voltage	Part Number			Current	Starting Current	Operating Temp /Protection	Life Duration	Housing Material	Weight	Connection	Agency Approvals
					35	5.5 mm B	ase Mount					
	12-240 V	20010000	\$15.00	Red								
Incandescent	AC/DC max (depends	20020000	\$15.00	Green	Depends on bulb			up to		50g		
Permanent Light	on bulb selection;	20030000	\$15.00	Yellow	selection. (Bulb sold	-		up to 5,000h		[1.76 oz]		
57mm	bulb sold	20040000	\$15.00	Clear	separately)			-,		[
	separately)	20050000	\$15.00	Blue								
	20		\$69.00	Red								
	115VAC	20120067	\$69.00	Green								
113440	20130067	\$69.00	Yellow	< 25mA								
LED Permanent		20140067	\$98.00	Clear		- ≤ 0.5 A	-4°F to 122°F [-20°C to 50°C]	up to 100,000h	Polycarbonate cap Polyamide			cULus file E164155, CE, RoHS
Light		20150067	\$105.00	Blue						66g [2.33 oz]	Up to 2.5 mm ² Screwless CAGE CLAMP® - technology	
58mm		20110075	\$56.00	Red								
	24V	20120075	\$56.00	Green								
	AC/DC	20130075	\$56.00	Yellow	< 45mA							
		20140075	\$109.00	Clear			IP65		base		(8-14 AWG)	,
		20150075	\$109.00 \$89.00	Blue Red								
		20210055 20220055	\$95.00	Green								
	24VDC	20220055	\$89.00	Yellow	< 100mA							
Xenon Flashing	24100	20230055	\$95.00	Clear	< IUUIIIA							
Light (0.75 Hz flash		20250055	\$95.00	Blue				4 000 000		000		
frequency, 1W		20230033	\$89.00	Red		_		4,000,000 flashes		82g [2.89 oz]		
flash energy)		20210007	\$95.00	Green								
58mm	115VAC	20230067	\$89.00	Yellow	< 20mA							
		20240067	\$95.00	Clear	CEOIIII							
		20250067	\$95.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

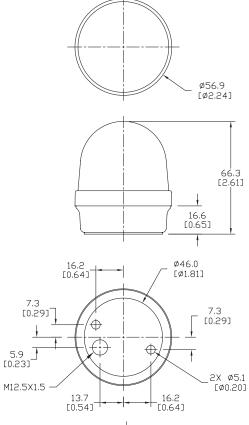
	Bulbs for Incandescent Permanent Optical Element											
Part Number	Price	Description	Wattage	Voltage	Life Duration							
95584035	\$7.25	Bulb for		24VDC								
95584038	\$7.25	Incandescent Light	5W	230VAC	up to 5,000h							
95584057	\$7.25	BA15d Bayonet Socket		115VAC	0,00011							



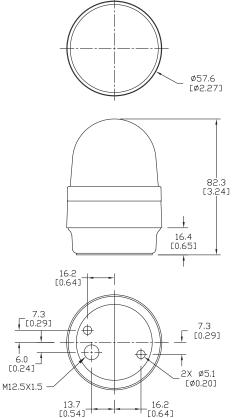
WERMA SIGNALTECHNIK

57/58 mm Base Mount Beacons

DIMENSIONS mm [in] **200 Series**



201/202 Series



Please see our website www.AutomationDirect.com for complete engineering drawings.



57/58 mm Bracket Mount Beacons

57/58 mm Beacon Features

- Choose from permanent incandescent, permanent LED, or flashing Xenon models
- Bracket mount installation
- 57 and 58mm diameters
- Light-intensive Xenon flash in flash models
- Bulb not included with incandescent models
- 2 year warranty





	203, 204, and 205 Series Beacons Technical Specifications											
Description	Voltage	Part Number			Current	Starting	Operating Temp /Protection	Life Duration	Housing	Weight	Connection	Agency Approvals
						25.8 mm (Bracket Mount)					
	12-240V	20310000	\$19.00	Red	Dananda							
Incandescent Permanent	AC/DC max (depends	20320000	\$19.00	Green	Depends on bulb			un to		55g		
Light	on bulb selection:	20330000	\$19.00	Yellow	selection. (bulb sold	_		up to 5,000h		[1.94 oz]		
57mm	bulb sold	20340000	\$19.00	Clear	separately)							
	separately)	20350000	\$19.00	Blue								
		20410067	\$79.00	Red								
		20420067	\$79.00	Green		– ≤ 0.5 A					2.5 mm ² Screwless CAGE CLAMP® - technology (18-14 AWG)	cULus file E164155, CE, RoHS
	115VAC	20430067	\$79.00	Yellow	< 25mA							
ED Permanent		20440067		Clear								
Light -		20450067		Blue				up to 100,000h		72g [2.53 oz]		
58mm		20410075	\$64.00	Red			-4°F to 122°F	100,00011				
	24V	20420075	\$64.00	Green	45. 4		-4 F to 122 F [-20°C to 50°C] IP65		Polycarbonate cap Polyamide base			
	AC/DC	20430075	\$64.00	Yellow	< 45mA							
		20440075 20450075		Clear Blue							gland: m12 x1.5	, , ,
		20450075	\$95.00	Red							Cable diameter:	
		20520055	\$99.00	Green							3-6 mm	
	24VDC	20520055	\$93.00	Yellow	< 100mA							
Xenon Flashing	24100	20540055	\$99.00	Clear	< TOOTIA							
Light (1Hz flash		20550055	\$99.00	Blue	<u> </u> 			4.000.000		000		
frequency, 1W		20510067	\$95.00	Red		_		flashes		88g [3.10 oz]		
flash energy) 58mm		20520067	\$99.00	Green	1					22		
	115VAC	20530067	\$93.00	Yellow	< 20mA							
	7107710	20540067	\$99.00	Clear		.UMA						
		20550067	\$99.00	Blue								

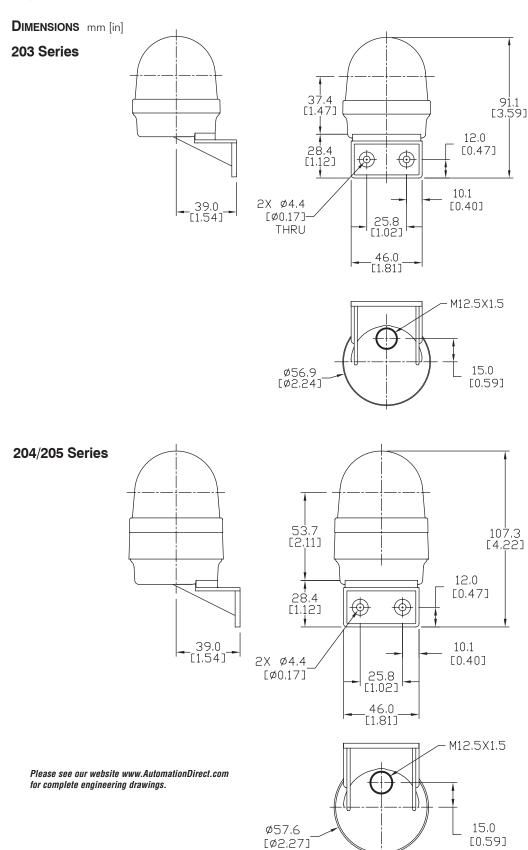
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

	Bulbs for Incandescent Permanent Optical Element											
Part Number	Price	Description	Wattage	Voltage	Life Duration							
95584035	\$7.25	Bulb for Incandescent		24VDC								
95584038	\$7.25	Light	5W	230VAC	up to 5,000h							
95584057	\$7.25	BA15d Bayonet Socket		115VAC	2,23011							





57/58 mm Bracket Mount Beacons



tPIL-192 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



57/58 mm Tube Mount Beacons

57/58 mm Beacon Features

- Choose from permanent incandescent, permanent LED, or flashing Xenon models
- Tube mount installation
- 57 and 58mm diameters
- Light-intensive Xenon flash in flash models
- Bulb not included with incandescent models
- Various mounting accessories available
- 2 year warranty





	209 Series Beacons Technical Specifications											
Description	Voltage	Part Number	Price	Color	Current	Starting Current	Operating Temp /Protection	Life Duration	Housing Material	Weight	Connection	Agency Approvals
						M25x1.5	(Tube Mount)					
	12-240V	20910000	\$19.00	Red								
Incandescent	AC/DC max (depends	20920000	\$19.00	Green	Depends on bulb					00-		
Permanent 57mm	on bulb selection;	20930000	\$19.00	Yellow	selection. (Bulb sold	_		up to 5,000h		62g [2.19 oz]		
3/11111	bulb sold	20940000	\$19.00	Clear	separately)							
	separately)	20950000	\$19.00	Blue								
		20911067	\$78.00	Red								
		20921067	\$78.00	Green								
	115VAC 20931067	\$78.00	Yellow	< 25mA								
		20941067	\$118.00	Clear			-4°F to 122°F [-20°C to 50°C]					cULus file E164155, CE, RoHS
LED Permanent Light		20951067	\$118.00	Blue		< 0.5 A		up to		78g	0.52	
58mm		20911075	\$64.00	Red		at 24V		100,000h	Polycarbonate cap	[2.75 oz]	2.5 mm² Screwless CAGE CLAMP® - technology (18-14 AWG)	
	241/	20921075	\$64.00	Green					Polyamide base			
	24V AC/DC	20931075	\$64.00	Yellow	< 45mA							02, 110110
		20941075		Clear								
		20951075	-	Blue								
		20912055	\$93.00	Red								
ļ <u>-</u>	24VDC	20932055	\$93.00	Yellow	< 100mA							
Xenon Flashing Light		20942055	\$99.00	Clear								
(0.75 Hz flash		20952055	\$99.00	Blue		_		4,000,000		94g		
frequency, 1W flash energy)		20912067	\$93.00	Red				flashes		[3.32 oz]		
58mm	115VAC	20932067	\$93.00	Yellow	< 20mA	20mA						
		20942067	\$99.00	Clear								
		20952067	\$99.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

	Bulbs for Incandescent Permanent Optical Element											
Part Number	Price	Description	Wattage	Voltage	Life Duration							
95584035	\$7.25	Bulb for		24VDC								
95584038	\$7.25	Incandescent Light	5W	230VAC	up to 5,000h							
95584057	\$7.25	BA15d Bayonet Socket		115VAC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							

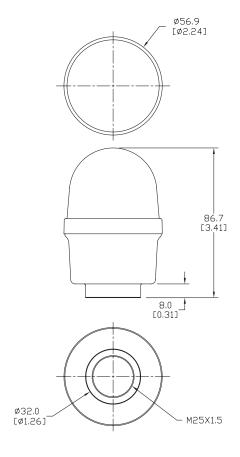




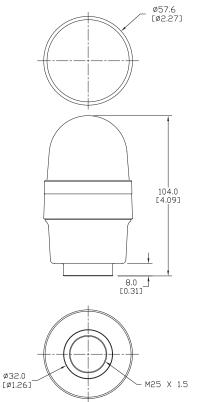
57/58 mm Tube Mount Beacons

DIMENSIONS mm [in]

209x0000 Series



209xx055/209xx067 Series



Please see our website www.AutomationDirect.com for complete engineering drawings.

tPIL-194 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



57/58 mm Base Mount Beacons (Tall Lens)

57/58 mm Beacon Features

- · Beacon with tall lens
- Base mount installation
- Choose from permanent incandescent, permanent LED, or flashing Xenon models
- 57 and 58mm diameters
- Light-intensive Xenon flash in flash models
- Bulb not included with incandescent models
- 2 year warranty



	210, 211, and 212 Series Beacons Technical Specifications											
Description	Voltage	Part Number			Current	Starting Current	Operating Temp /Protection	Life	Housing Material	Weight	Connection	Agency Approvals
						35.5 mm	(Base Mount)					
	12-240 V AC/DC max	21010000	\$16.00	Red	Depends							
Incandescent Permanent	(depends	21020000	\$16.00	Green	on bulb selection.			up to		55g		
Light	on bulb selection;	21030000	\$16.00	Yellow	(Bulb			5,000h		[1.94 oz]]	
57mm	bulb sold	21040000	\$16.00	Clear	sold separately)							
	separately)	21050000	\$16.00	Blue	эсрагаюту <i>)</i>							
		21110067	\$79.00	Red								
		21120067	\$79.00	Green								
	115VAC	21130067	\$79.00	Yellow	< 25mA							cULus file E164155, CE, RoHS
ED Permanent Light		21140067		Clear								
		21150067		Blue		≤ 0.5 A		up to		72g		
58mm		21110075		Red		= 0.0 N	4°5 1 400°5	100,000h		[2.53 oz]	2.5 mm ² Screwless CAGE CLAMP® - technology	
	24V	21120075		Green			-4°F to 122°F [-20°C to 50°C]	cap	Polycarbonate	,		
	AC/DC	21130075		Yellow	< 45mA				Polyamide base			
		21140075		Clear			IP65 when mounted				(18-14 AWG)	
		21150075		Blue								
		21210055		Red								
		21220055	\$99.00	Green								
Xenon Flashing	24VDC	21230055		Yellow	< 100mA							
Light (0.75 Hz		21240055		Clear								
flash		21250055		Blue		_		4,000,000		88g		
frequency, 1W flash energy)		21210067	\$94.00	Red				flashes		[3.10 oz]		
58mm		21220067	\$99.00	Green								
	115VAC	21230067	\$99.00	Yellow	< 20mA							
		21240067	-	Clear								
		<i>21250067</i>	\$105.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

Bulbs	Bulbs for Incandescent Permanent Optical Element											
Part Number	Price	Description	Wattage	Voltage	Life Duration							
95501535	\$7.25	Bulb for Incandescent		24V AC/DC								
95501537	\$7.25	Light BA15d Bayonet Socket	7W	115VAC	up to 5.000h							
95501538	\$7.25	Bayonet Socket		230VAC	2,30011							

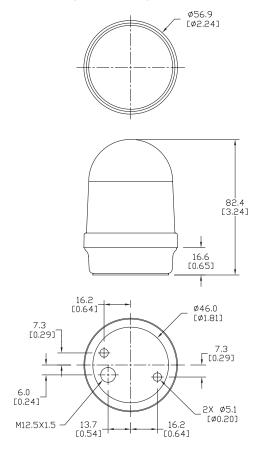




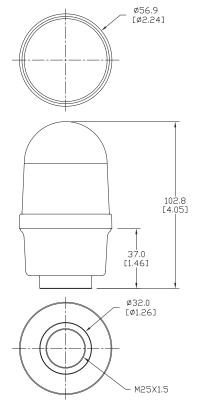
57/58 mm Base Mount Beacons (Tall Lens)

DIMENSIONS mm [in]

210 Series



211/212 Series



Please see our website www.AutomationDirect.com for complete engineering drawings.



57/58 mm Bracket Mount Beacons (Tall Lens)

57/58 mm Beacon Features

- Beacon with tall lens
- Bracket mount installation
- Choose from permanent incandescent, permanent LED, or flashing Xenon models
- 57 and 58mm diameters
- · Light-intensive Xenon flash in flash models
- Bulb not included with incandescent models
- 2 year warranty





213, 214, and 215 Series Beacons Technical Specifications												
Description	Voltage	Part Number	Price	Color	Current	Starting Current	Operating Temp /Protection	Life Duration	Housing Material	Weight	Connection	Agency Approvals
					2	5.8 mm ((Bracket Mount)					
	12-240V	21310000	\$19.00	Red								
Incandescent	AC/DC max (depends	21320000	\$19.00	Green	Depends on bulb					04		
Permanent Light	on bulb	21330000	\$19.00	Yellow	selection.	-		up to 5.000h		61g [2.15 oz]		
57mm	selection; bulb sold	<i>21340000</i>	\$19.00	Clear	(Bulb sold separately)			.,		[2.70 02]		
	separately)	21350000	\$19.00	Blue								
		<i>21410067</i>	\$79.00	Red							2.5 mm ² Screwless CAGE CLAMP® - technology (18-14 AWG) Cable qland: m12 x1.5	
		21420067	\$79.00	Green								cULus file E164155, CE, RoHS
	115VAC	21430067	\$79.00	Yellow	< 25mA							
LED Permanent Light		21440067	\$119.00	Clear						78g [2.75 oz]		
		21450067	\$119.00	Blue		≤ 0.5 A		up to				
58mm		21410075	\$66.00	Red		_ 0.071		100,000h				
	24V	21420075	\$66.00	Green		< 45mA	-4°F to 122°F [-20°C to 50°C]		Polycarbonate			
	AC/DC	21430075	\$66.00	Yellow	< 45mA		IP65 when mounted		cap Polyamide base			
		21440075		Clear								
		21450075		Blue							Cable diameter:	
		21510055		Red							3-6 mm	
		21520055		Green								
	24VDC	21530055	· ·	Yellow	< 100mA							
Xenon Flashing		21540055		Clear								
Light (1Hz flash frequency, 1W		21550055		Blue		_		4,000,000		94g		
flash energy)		21510067	\$98.00	Red				flashes		[3.32 oz]		
58mm		21520067	\$105.00	Green								
	115VAC	21530067	\$98.00	Yellow	< 20mA							
		21540067	\$105.00	Clear								
		21550067	\$105.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



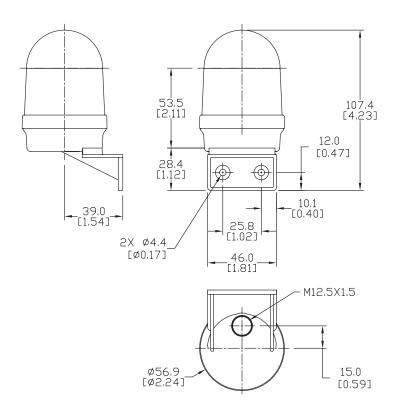
Bulb	Bulbs for Incandescent Permanent Optical Element											
Part Number	Price	Description	Wattage	Voltage	Life Duration							
95501535	\$7.25	Bulb for Incandescent		24V AC/DC								
95501537	\$7.25	Light	7W	115VAC	up to 5.000h							
95501538	\$7.25	BA15d Bayonet Socket		230VAC	2,20011							



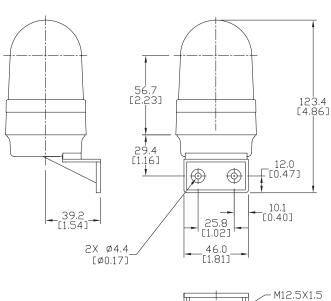
57/58 mm Bracket Mount Beacons (Tall Lens)

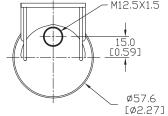
DIMENSIONS mm [in]

213 Series



214/215 Series





Please see our website www.AutomationDirect.com for complete engineering drawings.



57/58 mm Tube Mount Beacons (Tall Lens)

57/58 mm Beacon Features

- Beacon with tall lens
- Choose from permanent incandescent, permanent LED, or flashing Xenon models
- Tube mount installation
- 57 and 58 mm diameters

- · Light-intensive Xenon flash in flash models
- Bulb not included with incandescent models
- · Various mounting accessories available
- 2 year warranty





			219	Serie	s 57/58	mm Bea	cons Technical	Specific	ations			
Description	Voltage	Part Number			Current		Operating Temp /Protection	Life Duration	Housing Material	Weight	Connection	Agency Approvals
						M25x1.5	(Tube Mount)					
	12-240V	<i>21910000</i>	\$21.00	Red								
Incandescent Permanent	AC/DC max (depends	<i>21920000</i>	\$21.00	Green	Depends on bulb					670		
Light	on bulb selection;	<i>21930000</i>	\$21.00	Yellow	selection. (Bulb sold	-		up to 5,000h		67g [2.37 oz]	<u>[</u>]	
57mm	bulb sold	<i>21940000</i>	\$21.00	Clear	separately)							
	separately)	<i>21950000</i>	\$21.00	Blue								
		<i>21911067</i>	\$83.00	Red								
		21921067	\$83.00	Green								
115	115VAC 21931067	\$83.00	Yellow	< 25mA								
		<i>21941067</i>	\$124.00	Clear						84g [2.96 oz	Max. 2.5 mm ² Screwless CAGE CLAMP® - technology (18-14 AWG)	cULus file E164155, CE, RoHS
LED Permanent Light		<i>21951067</i>	\$124.00	Blue		< 0.5A		up to				
58mm		<i>21911075</i>	\$69.00	Red			-4°F to 122°F [-20°C to 50°C]	100,000h	Polycarbonate			
	0.417	<i>21921075</i>	\$69.00	Green					cap Polyamide base			
	24V AC/DC	21931075	\$69.00	Yellow	< 45mA		IP65 when mounted					
		21941075		Clear								
		21951075		Blue								
		21912055	-	Red								
Xenon Flashing	24VDC	21932055		Yellow	< 100mA							
Light (1Hz flash		21942055		Clear								
frequency, 1W flash energy)		21952055	-	Blue		_		4,000,000		100g		
		21912067	\$98.00	Red				flashes		[3.52 oz]		
58mm	115VAC	21932067	\$98.00	Yellow	-							
11		21942067	\$104.00	Clear								
		21952067	\$104.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



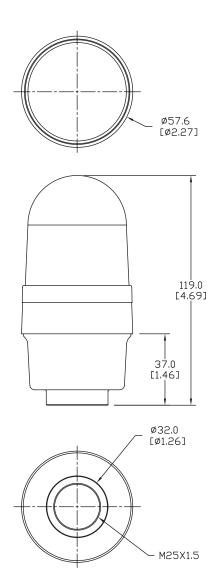
Bulbs for Incandescent Permanent Optical Element												
Part Number	Price	Description	Wattage	Voltage	Life Duration							
95501535	\$7.25	Bulb for		24V AC/DC								
95501537	\$7.25	Incandescent Light BA15d	7W	115VAC	up to 5,000h							
95501538	\$7.25	Bayonet Socket		230VAC	2,23011							



57/58 mm Tube Mount Beacons (Tall Lens)

DIMENSIONS mm [in]

219 Series



 ${\it Please see our website www. Automation Direct. com for complete engineering drawings.}$

tPIL-200 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



75mm Base Mount Beacons

75mm Beacon Features

- Choose from permanent incandescent, permanent LED, or flashing Xenon models
- 75mm diameter
- Base mount installation
- Through-hole, cable diameter maximum 10mm
- Light-intensive Xenon flash in flash models
- Bulb not included with incandescent models
- · Various mounting accessories available
- 2 year warranty





		22	0, 221,	and 2	222 Serie	s 75mm	Beacons Techn	ical Spe	cification	S		
Description	Voltage	Part Number	Price		Current		Operating Temp	Life	Housing Material		Connection	Agency Approvals
						48mm (E	Base Mount)					
	12-240V	<i>22010000</i>	\$29.00	Red						0.7		
Incandescent	AC/DC max (depends	22020000	\$29.00	Green	Depends on bulb			4				
Permanent Light	on bulb selection;	<i>22030000</i>	\$29.00	Yellow	selection. (Bulb sold	-		up to 5,000h		97g [3.42 oz]		
9	bulb sold	<i>22040000</i>	\$29.00	Clear	separately)			,				
	separately)	<i>22050000</i>	\$29.00	Blue								
		22110067	\$89.00	Red								
		22120067	\$89.00	Green						106g		E cULus file E164155, CE, RoHS
	115VAC	<i>22130067</i>	\$89.00	Yellow	< 25mA	- 0.5A				[3.74 oz]		
		22140067	\$129.00	Clear								
LED Permanent		<i>22150067</i>	\$129.00	Blue				up to				
Light	0.01	22110075	\$75.00	Red	< 45mA			100,000h	Polycarbonate cap Polyamide base		Max. 2.5 mm2	
		22120075	\$75.00	Green			-4°F to 122°F [-20°C to 50°C]			133g	Screwless CAGE	
	24V AC/DC	22130075	\$75.00	Yellow						[4.69 oz]	CLAMP® - technology (18-14 AWG)	
		22140075	\$113.00	Clear			IP65 when mounted					
		22150075	\$113.00	Blue								
		22210055	\$107.00	Red								
		22220055	\$113.00	Green								
	24VDC	22230055	\$107.00	Yellow	< 100mA							
Xenon Flashing		22240055	\$113.00	Clear								
Light (1Hz flash		22250055	\$113.00	Blue		_		4,000,000		151g		
frequency, 1W flash energy)		22210067	\$107.00	Red				flashes		[5.33 oz]		
377		22220067	\$113.00	Green								
	115VAC	22230067	\$107.00	Yellow	< 20mA							
		22240067	\$113.00	Clear								
		<i>22250067</i>	\$113.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



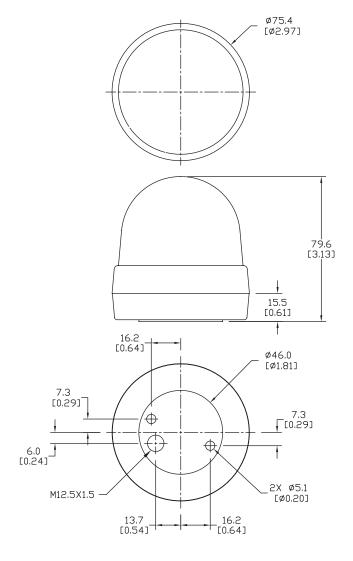
Bulb	Bulbs for Incandescent Permanent Optical Element												
Part Number	Price	Description	Wattage	Voltage	Life Duration								
95501535	\$7.25	Bulb for		24V AC/DC									
95501537	\$7.25	Incandescent Light BA15d	7W	115VAC	up to 5.000h								
95501538	\$7.25	Bayonet Socket		230VAC	0,000								



75mm Base Mount Beacons

DIMENSIONS mm [in]

220/221/222 Series



 ${\it Please see our website www. Automation Direct.com for complete engineering drawings.}$

tPIL-202 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

75mm Bracket Mount Beacons

75mm Beacon Features

- Choose from permanent incandescent, permanent LED, or flashing Xenon models
- 75mm diameter
- Bracket mount installation
- Light-intensive Xenon flash in flash models
- Bulb not included with incandescent models
- Various mounting accessories available
- 2 year warranty





			223,	224, a	and 225	Series Be	eacons Technica	al Specif	ications			
Description	Voltage	Part Number			Current		Operating Temp		Housing	Weight	Connection	Agency Approvals
						48mm (B	racket Mount)					
	12-240V AC/DC	<i>22310000</i>	\$33.00	Red								
Incandescent	max	<i>22320000</i>	\$33.00	Green	Depends on bulb					1000		
Permanent Light	(depends on bulb	<i>22330000</i>	\$33.00	Yellow	selection. (bulb sold separately)	_		up to 5,000h		103g [3.63 oz]		
Ligiit	selection; bulb sold	<i>22340000</i>	\$33.00	Clear								
	separately)	<i>22350000</i>	\$33.00	Blue								
		22410067	\$99.00	Red	< 25mA							
	115VAC 2	22420067	\$99.00	Green						142g	2.5 mm²	
		22430067	\$99.00	Yellow		- ≤ 0.5 A	44			[5.01 oz]		
			\$129.00	Clear								
LED Permanent			\$129.00	Blue				up to			2.5 mm ² Screwless CAGE	
Light	24V AC/DC	22410075	\$86.00	Red	< 45mA			100,000h			CLAMP® - technology	
		22420075	\$86.00	Green			-4°F to 122°F [-20°C to 50°C]		Polycarbonate cap	144g [5.08 oz]	(18-14 AWG) Cable gland: m12 x1.5 Cable diameter:	cULus file E164155, CE, RoHS
		22430075	\$86.00	Yellow			[20 0 10 30 0]		Polyamide base			
		22440075		Clear			IP65 when mounted					
		22450075		Blue								
		22510055		Red							3-6 mm	
		22520055		Green								
	24VDC	22530055	-	Yellow	< 100mA							
Xenon Flashing		22540055		Clear								
Light (0.75 Hz flash		22550055		Blue		_		4,000,000 flashes		151g [5.33 oz]		
frequency, 1W flash energy)		22510067		Red				11451165		[J.33 UZ]		
doir dridigy)	445)/00	22520067		Green	004							
	115VAC	22530067		Yellow	< 20mA							
		22540067		Clear								
		<i>22550067</i>	\$114.00	Blue								

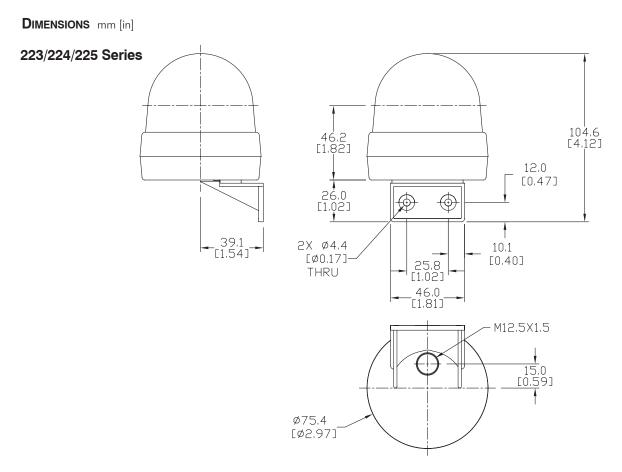
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



Bulb	Bulbs for Incandescent Permanent Optical Element												
Part Number	Price	Description	Wattage	Voltage	Life Duration								
95501535	\$7.25	Bulb for Incandescent		24V AC/DC									
95501537	\$7.25	Light BA15d Bayonet Socket	7W	115VAC	up to 5.000h								
95501538	\$7.25	Bayonet Socket		230VAC	0,000								



75mm Bracket Mount Beacons



Please see our website www.AutomationDirect.com for complete engineering drawings.

tPIL-204 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



98mm Base Mount Beacons

98mm Beacon Features

- · Choose from permanent incandescent, permanent LED, flashing Xenon, EVS (Enhanced Visibility System) flashing LED, and rotating models
- Base mount installation
- 98mm diameter
- · Light-intensive Xenon flash in flash models
- Bulb not included with 826 incandescent models
- 25W bulb included with 827 incandescent models
- Various mounting accessories available
- · 2 year warranty







Current Protection Duration Material	t Connection	Agency Approvals
Description Voltage Number Price Color Current Current /Protection Duration Material Weight	t Connection	
12-240V		
Incandescent AC/DC max (depends (depends on bulb (depends depends on bulb (depends depends on bulb (depends depends de		
Permanent (depends 0202000 \$50.00 Green on bulb 190a		
Ferrialient		
98mm selection; bulb sold bulb sold separately) 82640000 \$38.00 Clear (bulb sold separately)	'	
separately) 82650000 \$38.00 Blue		
82710075 \$90.00 Red		
82720075 \$98.00 Green 24V 82720075 \$00.00 Velley max. Up to		cULus file E164155, CE, RoHS
Jacondecept AC/DC 62/300/5 \$90.00 fellow 3.0 A 5,000h		
Blinking Light 82/400/3 \$98.00 Clear		
(1.5 Hz blinking frequency, 5Ws \$827 50075 \$98.00 Blue 207g		
flash 82/100// \$90.00 Red	 Terminal screws	
98mm 445V 82720077 \$90.00 Green 170721001010	Max 2.5 mm ²	
AC/DC 82/300/7 \$90.00 Yellow 500 mA Polycarbonate/	AWG 16-14 Cable diameter 5-8 mm	
82740077 \$98.00 Clear IP65 when mounted ABS base		
82750077 \$98.00 Blue ≤ 3.0 A	-	
82810055 \$108.00 Red 82820055 \$115.00 Green		
24VDC 82830055 \$108.00 Yellow 300mA		
200 10055 0445 00 00		
Xenon Flashing		
frequency, 1W flash energy) 82810067 \$108.00 Red flashes [7.76 oz		
98mm 82820067 \$115.00 Green		
115VAC 22220657 \$102.00 Vollow 65mA		
82840067 \$115.00 Clear 50-60 Hz		
82850067 \$183.00 Blue		

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



95582635

			Bulbs				
Part Number	Price	Description	Wattage	Voltage	For Use With	Life Duration	
95582635	\$7.25	Bulb for		24V AC/DC			
95582637	\$7.25	incandescent light	15W	115VAC	826xxxxx	up to 5.000h	
95582638	\$7.25	BA15d bayonet socket		230VAC		3,00011	
95582735	\$7.00	Bulb for blinking	25W	24V AC/DC	827xxxxx		
95582737	\$7.00	incandescent light B15d bayonet socket	2344	115VAC	021XXXXX	up to	
95588524	\$10.00	Halogen bulb G6.35	20W	12V	885xxx78	2,000h	
95588525	\$10.00		2000	24V	885xxx75		



95582735



tPIL-205

Pilot Devices



98mm Base Mount Beacons

			829 an	d 885	Series !	98mm Be	eacons Technic	al Speci	fications			
Description	Voltage	Part Number			Current	Starting	Operating Temp	Life	Housing Material	Weight	Connection	Agency Approvals
							Base Mount)					
Permanent/ Blinking LED		<i>82910055</i>	\$139.00	Red								
(blinking	24VDC	82920055	\$185.00	Green	≤ 150mA					200g		
frequency 1.5 Hz)	24000	82930055	\$139.00	Yellow	2 10011A					[7.05 oz]		
98mm		82950055	\$195.00	Blue								
		82911055	\$165.00	Red								
		82921055	\$252.00	Green								
	24VDC	82931055	\$165.00	Yellow	≤ 170mA							
		82941055	\$252.00	Clear								
Rotating LED 98mm		82951055	\$252.00	Blue						215g		
		82911068	\$190.00	Red		< 500 mA				[7.58 oz]		
	115-230 VAC	82921068	\$277.00	Green	≤ 200mA			up to 50,000h			Terminal screw	
			\$190.00	Yellow							≤ 2.5 mm ² AWG 16-14	
		82941068		Clear					Polycarbonate cap Polycarbonate/ ABS base		Cable diameter	
		82951068		Blue							5-7 mm	
		82912055	\$148.00	Red								
Double Flash LED	24VDC	82932055	\$149.00	Yellow	≤ 100mA		-4°F to 122°F					
		82942055	\$226.00	Clear			[-20°C to 50°C]			205g [7.23 oz]		
98mm		82912068	\$168.00	Red	≤ 100mA		IP65 when mounted			[7.23 02]		
	115-230 VAC	82932068	\$168.00	Yellow							_	
		82942068	\$234.00	Clear		≤ 500mA						
	115VAC	82913067	\$149.00	Red	- ≤ 30mA							
Permanent LED 98mm		82923067	\$200.00	Green						200g [7.05 oz]		
9011111		82933067	\$149.00	Yellow						[1.00 02]		
		82953067	\$212.00	Blue								
Permanent/		82915055	\$207.00	Red							Terminal screws	
blinking / rotating LED	24VDC	82925055	\$339.00	Green						205g [7.23 oz]	≤ 2.5 mm ² AWG 24-11	
98mm		82935055	\$207.00	Yellow						[1.20 02]	Cable diameter 5-7 mm	
		82955055	\$339.00	Blue	≤ 300mA						0 7 111111	
	0.41/D.0	82919055		Red		< 500mA						
*Enhanced Visibility System	24VDC			Yellow							Terminal screws ≤ 2.5 mm ²	
(EVS) flashing		82949055		Clear						215g [7.58 oz]	AWG 16-14	
LED 98mm	115 000 \/AC	82919068	\$208.00 \$208.00	Red	< 150mA					[Cable diameter 5-7 mm	
00111111	115-230 VAC	82939068		Yellow	≤ IOUIIIA							
		82949068		Clear								
		88510075		Red								
	24V AC/DC	88520075		Green	≤ 1A	-				321g [11.32 oz]		
Halogen Rotating	3,20	88530075 88550075		Yellow Blue			-22°F to 122°F		Polycarbonate		Terminal screws ≤ 2.5 mm ²	cULus file
Mirror		88510078		Red			[-30°C to 50°C]	up to 5,000h	cap Polycarbonate/		AWG 22-14	E354322,
Beacon 98mm		88520078		Green			IP65 when mounted	5,000n	ABS base		Cable diameter 5-7 mm	neter CE, RoHS
	115-230V AC/DC	88530078			≤ 400mA	-				361g [12.73 oz]	1g	
	1.0,20			Yellow								
		88550078	\$169.00	Blue								

^{*}EVS models provide a random flash pattern for increased visibility.

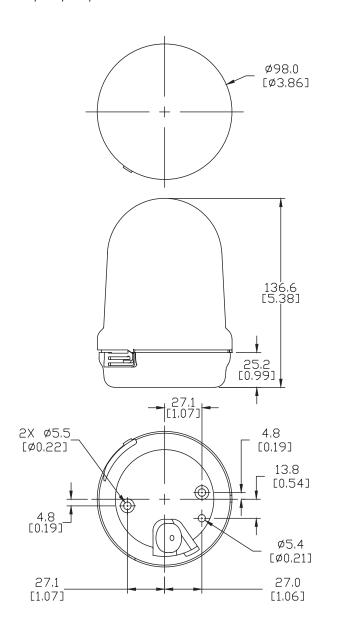
tPIL-206 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



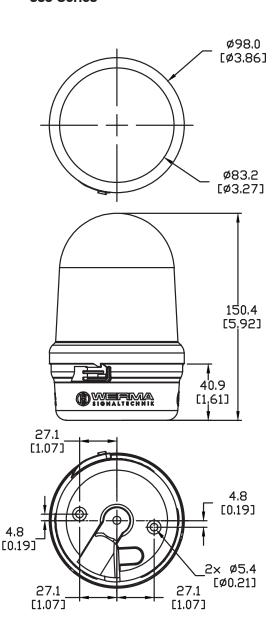
98mm Base Mount Beacons

DIMENSIONS mm [in]

826/827/828/829 Series



885 Series



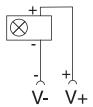
 ${\it Please see our website www. Automation Direct.com for complete engineering drawings.}$

WERMA SIGNALTECHNIK

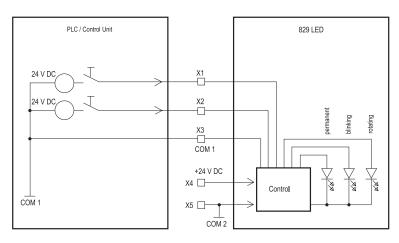
98mm Base Mount Beacons

SCHEMATICS

826, 827, 828, 885 Series and All 829s except: 82915055, 82925055, 82935055, 82955055



Permanent/Blinking/Rotating LED: 82915055, 82925055, 82935055, 82955055



With positive	logic							
X1	X1							
X2	1 = +24 V, 0 = COM 1							
X3	COM 1							
X4	+24 V							
X5	COM 2							
With negative	e logic							
X1	1 = -24 V, 0 = COM 1							
X2	1 = -24 V, 0 = COM 1							
X3	COM 1							
X4	+24 V							
X4 X5	+24 V COM 2							

Binary Code (for external triggering)

X1	X2	mode	
0	0	Permanent	ON/Solid
0	1	Rotating	
1	0	Blinking	
1	1	Permanent	ON/Solid
	0	0 0 0	0 0 Permanent 0 1 Rotating 1 0 Blinking

tPIL-208 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



98mm Tube Mount Beacons

98mm Beacon Features

- Choose from permanent incandescent, permanent LED, flashing Xenon, EVS (Enhanced Visibility System) flashing LED, and rotating models
- Tube mount installation
- 98mm diameter
- Light-intensive Xenon flash in flash models
- Bulb not included with 826 incandescent models
- Various mounting accessories available
- 2 year warranty





			820	and a	828 Seri	es Beaco	ns Technical S	pecifica	tions			
Description	Voltage	Part Number	Price	Color	Current	Starting Current	Operating Temp /Protection	Life Duration	Housing Material	Weight	Connection	Agency Approvals
						M25x1.5	Tube Mount)					
	12-240V	82611000	\$44.00	Red								
Incandescent Permanent Light	AC/DC max (depends on bulb selection; bulb sold	82621000	\$44.00	Green	Depends on bulb		-4°F to 122°F		Polycarbonate		Terminal screws	
		82631000	\$44.00	Yellow	selection.	_	[-20°C to 50°C]	Up to 5,000h	cap Polycarbonate/	231g [8.15 oz]	Max 1.5 mm ² Cable diameter	
98mm		82641000	\$44.00	Clear	(bulb sold separately)		IP65 when mounted	0,000	ABS base	[0.10 02]	5-7 mm	cULus file E164155, CE, RoHS
	separately)	82651000	\$44.00	Blue								
		82814055	\$116.00	Red	300mA	-			0,000 Cap		Terminal screws Max 2.5 mm ² Cable diameter 5-7 mm	
		82824055	\$123.00	Green			-4°F to 122°F	Min				
	24VDC	82834055	\$116.00	Yellow			[-20°C to 50°C]	4 000 000		272g / [9.59 oz]		
Xenon Flashing		82844055	\$123.00	Clear			IP65 when mounted					
Light (1Hz flash		82854055	\$123.00	Blue								
frequency, 1W flash energy)		82814067	\$116.00	Red								
98mm		82824067	\$123.00	Green			-4°F to 122°F	Min	Polycarbonate		Terminal screws	
	115VAC	82834067	\$116.00	Yellow	65mA 50-60 Hz	_	[-20°C to 50°C]	4,000,000	cap Polycarbonate/	262g [9.24 oz]	Max 2.5 mm ² Cable diameter	
		82844067	\$123.00	Clear			IP65 when mounted	flashes	ABS base	[3.24 02]	5-7 mm	
		82854067	\$123.00	Blue								

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



	Bulbs													
Part Number	Price	Description	Wattage	Voltage	For Use With	Life Duration								
95582635	\$7.25	Bulb for		24V AC/DC										
95582637	\$7.25	incandescent light	15W	115VAC	826xxxxx	up to 5,000h								
95582638	\$7.25	BA15d bayonet socket		230VAC		5,00011								
95588524	\$10.00	Halagan hulb C6 25	00147	12V	885xxx78	Up to 2,000h								
95588525	\$10.00	Halogen bulb G6.35	20W	24V	885xxx75									



tPIL-209



98mm Tube Mount Beacons

			829 an	d 885	Series	98mm Be	eacons Technic	al Sneci	fications			
Description	Voltogo	Part					Operating Temp		Housing	Majaht	Connection	Agency
Description	Voltage	Number	Price	Color	Current	Current	/Protection	Duration		weignt	Connection	Approvals
						M25x1.5	(Tube Mount)	I				I
Permanent/ Blinking LED		82910755		Red	≤ 150mA		-4°F to 122°F		Polycarbonate		Terminal screws	
(blinking	24VDC	82920755		Green		≤ 500mA	[-20°C to 50°C]	up to	cap	246g	≤ 2.5 mm ²	
frequency 1.5 Hz)	_	82930755		Yellow			IP65 when mounted	50,000h	Polycarbonate/ ABS base	[8.68 oz]	Cable diameter 5-7 mm	
98mm		82950755	\$210.00	Blue								
		82911755	\$177.00	Red								
		82921755	\$271.00	Green						050=		
	24VDC	82931755	-	Yellow	≤ 170mA	≤ 500mA				259g [9.14 oz]		
		82941755	\$271.00	Clear			-4°F to 122°F		Polycarbonate		Terminal screws	
Rotating LED		82951755	\$271.00	Blue			[-20°C to 50°C]	up to	cap		≤ 2.5 mm ²	
98mm		82911768	\$205.00	Red			IP65 when mounted	50,000h	Polycarbonate/ ABS base		Cable diameter 5-7 mm	
		82921768	\$298.00	Green			ii oo widii iilaanida					
	115-230 VAC	82931768	\$205.00	Yellow	≤ 200mA	≤ 500mA				275g [9.7 oz]		
		82941768	\$298.00	Clear						[]		
		82951768	\$298.00	Blue								
		82912755	\$159.00	Red						257g [9.07 oz]	Terminal screws	
	24VDC	82932755	\$160.00	Yellow	≤ 30mA	≤ 500mA	-4°F to 122°F		Polycarbonate [9.07 oz] -			
Double Flash LED		82942755	\$244.00	Clear			[-20°C to 50°C]	up to		ormma CULus	cULus file E164155,	
98mm		82912768	\$180.00	Red	<u>1</u> ≤ 120mA ≤ 500mA		IP65 when mounted	50,000h	Polycarbonate/ ABS base	Polycarbonate/ Cable diameter	CE, RoHS	
	115-230 VAC	82932768	\$180.00	Yellow		≤ 500mA	IF 03 WHEIT ITIOUTILEU		7120 5000	264g [9.31 oz]	37111111	
		82942768	\$252.00	Clear								
		82913767	\$160.00	Red			105 . 10005					
Permanent LED	115VAC 82923767	\$215.00	Green		- F00 A		up to 50,000h	Polycarbonate cap Polycarbonate/ ABS base	251g	Terminal screws ≤ 2.5 mm² Cable diameter 5-7 mm		
98mm		82933767	\$160.00	Yellow	- ≤ 30mA ≤ 500mA							
		82953767	\$228.00	Blue			IP65 when mounted		/ IDO base		0 7 111111	-
		82915755	\$223.00	Red			4°E 400°E	up to Cap 50,000h Polycarbonate ABS base	Polycarbonate	256g	Terminal screws ≤ 2.5 mm ²	
Permanent/ blinking /	041/00	82925755	\$365.00	Green	. 000 1	. 500 4	-4°F to 122°F [-20°C to 50°C]					
rotating ĽÉD 98mm	24VDC	82935755	\$223.00	Yellow	≤ 300mA	≤ 500mA				AWG 22-14 Cable diameter		
3011111		82955755	\$365.00	Blue			IP65 when mounted		ADO Dase		5-7 mm	
		82919755	\$196.00	Red								
*Enhanced	24VDC	82939755	\$196.00	Yellow	≤ 300mA		4°5 1 400°5			256g [9.03 oz] Termi	Terminal screws	
Visibility System		82949755	\$299.00	Clear		F00 4	-4°F to 122°F [-20°C to 50°C]	up to	Polycarbonate cap	[0.00 02]	≤ 2.5 mm ²	
(EVS) flashing LED		82919768	\$225.00	Red		< 500mA	IDOS - h	50,000h	Polycarbonate/ ABS base		AWG 22-14 Cable diameter	
98mm	115-230 VAC	82939768	\$225.00	Yellow	≤ 150mA		IP65 when mounted		ADS Dase	275g [9.7 oz]	5-7 mm	
		82949768	\$310.00	Clear						[0.7 02]		
		88511075		Red								
	24V	88521075	\$138.00	Green	٠,,					341g		
Halogen	AĈ/DC	88531075		Yellow	≤ 1A	_				[12.03 oz]	Terminal screws	
Rotating		88551075	\$138.00	Blue			-22°F to 122°F [-30°C to 50°C]	up to	Polycarbonate cap		≤ 2.5 mm ²	cULus file
Mirror Beacon		88511078		Red			IP65 when mounted	5,000h	00h Polycarbonate/		AWG 22-14 Cable diameter	E354322, CE, RoHS
98mm	115-230V	88521078	\$175.00	Green	400 4		II OO WHOH HIDUHEU		ÅBS base	381g	5-7 mm	
	AC/DC	88531078	\$175.00	Yellow	≤ 400mA	_				[13.44 oz]		

^{*}EVS models provide a random flash pattern for increased visibility.

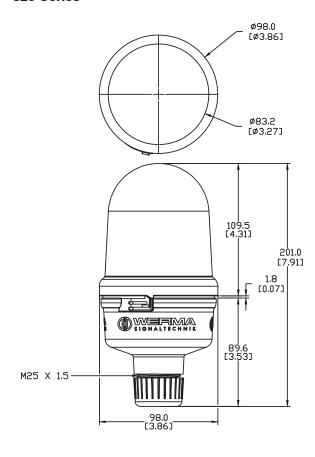
tPIL-210 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



98mm Tube Mount Beacons

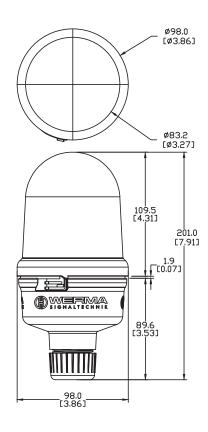
DIMENSIONS mm [in]

829 Series



885 Series

Please see our website www.AutomationDirect.com for complete engineering drawings.



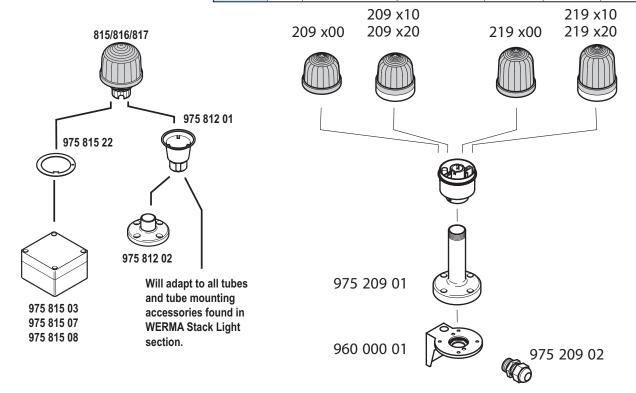


Beacon Accessories





		WERMA Beacons Accesso	ries		
Part Number	Price	Description	Operating Temp.	Material	Weight
		Installation Beacon Accesso	ries		
97581201	\$12.50	Tube adapter for beacons with 37mm (PG29) mounting installation. Find tube adapter accessories in WERMA Stack light catalog section.		Polyamide / Fiberglass	1.13 g [0.04 oz]
97581202	\$12.00	Surface mounting base for beacons with 37mm (PG29) mounting installation		Polyamide / Fiberglass with rubber seal	2.83 g [0.1 oz]
97581503	\$39.00	Surface mounting enclosure for 1 beacon with 37mm (PG29) mounting installation	-4°F to 122°F [-20°C to 50°C]		8.5 g [0.3 oz]
97581507	\$54.50	Surface mounting enclosure for 2 beacons with 37mm (PG29) mounting installation	[-20 6 to 30 6]	Polycarbonate/ ABS blend	14.17 g [0.5 oz]
97581508	\$71.50	Surface mounting enclosure for 3 beacons with 37mm (PG29) mounting installation			17g [0.6 oz]
97581522	\$5.00	Anti-twist washer for beacons with 37mm (PG29) mounting installation		304 Stainless steel	0.57 g [0.02 oz]
		Freestanding Beacon Access	ories		
96000001	\$15.00	Bracket for tube mounting - for use with for use with 219 and 209 series industrial signal beacons.		Polyamide	57g [2.01 oz]
97520901	\$18.00	Plastic Base with integrated tube for WERMA industrial signal beacons- for use with 209 and 219 series beacons		Polyamide	0.1 lbs [1.6 oz}
97520902	\$5.00	Cable gland for WERMA industrial signal beacons: M25x1.5, plastic - for use with 209 and 219 series industrial signal beacons	-4°F to 122°F [-20°C to 50°C]	Nylon	0.1 lbs [1.6 oz}
97582603	\$38.00	Galvanized Wire Guard for WERMA industrial signal beacons - for use with 826, 827, 828 and 829 series industrial signal beacons		Wire D 3mm, chromed	140g [4.93 oz]
97582605	\$9.00	Plastic Bracket for wall mounting for use with WERMA signal beacons - for use with 826, 827, 828 and 829 series industrial signal beacons		Polycarbonate/ ABS blend	62g [2.19 oz]



tPIL-212 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

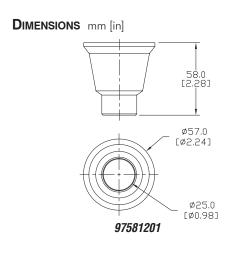


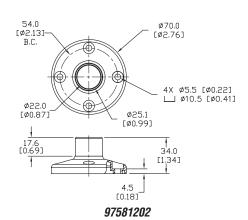
4X 6.6 [0.26]

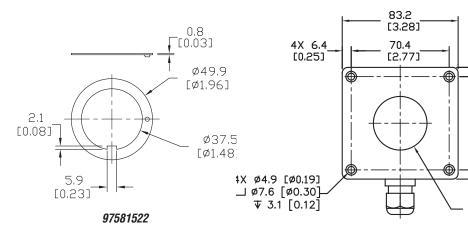
E Ø38.5 [Ø1.52] THRU

LID ONLY

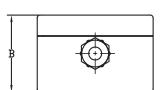
Beacon Accessories

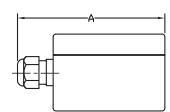






Please see our website www.AutomationDirect.com for complete engineering drawings.



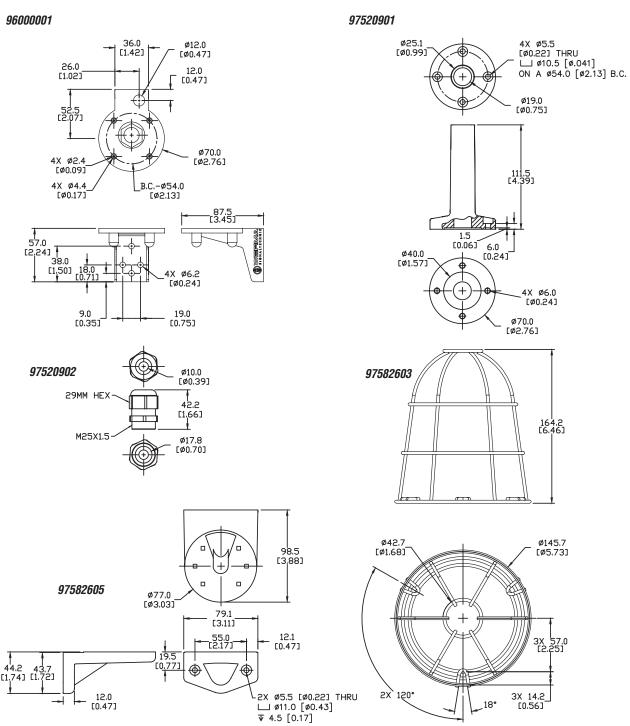


PART #	DIM A	DIM B	DIM C	DIM D	E # OF HOLES EQUALLY SPACED
97581503	105.8[4.17]	55.2[2.17]	80.2[3.16]	67.0[2.64]	1
97581507	185.7[7.31]	55.2[2.17]	160.3[6.31]	147.1[5.79]	2
97581508	266.7[10.50]	60.9[2.40]	241.3[9.50]	228.1[8.98]	3



Beacon Accessories

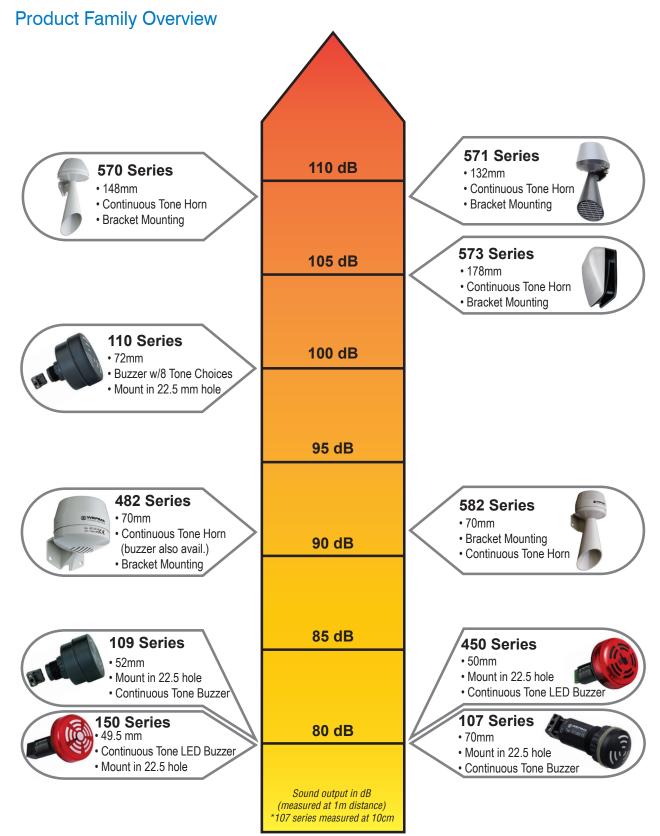
DIMENSIONS mm [in]



Please see our website www.AutomationDirect.com for complete engineering drawings.

tPIL-214 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5







22.5 mm Panel-mount Electrical Buzzers

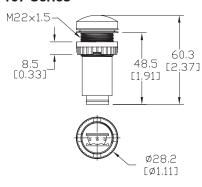
- Mount in 22.5 mm hole
- Fourteen models available
- Continuous and pulse-tone models
- 80 to 100 decibels
- Buzzer without sound output holes
- Low current consumption
- High IP 65 protection rating





DIMENSIONS mm [in]

107 Series



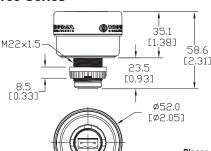
107 Series Buzzer Specifications							
Part Number	10700075	10700075 10700077 10701075 10701077					
Price	\$29.00	\$32.00	\$29.00	\$32.00			
Description		Buz	zzer				
Voltage	24V AC/DC	115V AC/DC	24V AC/DC	115V AC/DC			
Current Consumption		≤ 8	lmA				
Tone Frequency	2.4 kHz						
Maximum Volume	80dB @ 10cm						
Tone Type	Continuous Pulse, approx.1Hz						
Life Duration	> 5000h						
Operating Temperature	-4°F to 122°F [-20°C to 50°C]						
Protection	IP65						
Weight	30g [1.06 oz]						
Housing Material	Polyamide-Fiberglass						
Connection	Connector with max. wire 1.5 mm² (16AWG), 0.3 N torque						
Agency Approvals		cULus file E164	4155, CE, RoHS				

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



DIMENSIONS mm [in]

109 Series



109 Series Buzzer Specifications							
Part Number	10900075	10900075 10900077 10901075 10901077					
Price	\$59.00	\$65.50	\$59.00	\$65.50			
Description		Buz	zzer				
Voltage	24V AC/DC	115V AC/DC	24V AC/DC	115V AC/DC			
Current Consumption		≤ 25	5mA				
Tone Frequency	2.1 kHz						
Maximum Volume		80dB	@ 1m				
Tone Type	Continuous Pulse, approx. 1Hz						
Life Duration		> 50	000h				
Operating Temperature	-4°F to 122°F [-20°C to 50°C]						
Protection		IP	65				
Weight	44g [1.55 oz]	47g [1.66 oz]	44g [1.55 oz]	47g [1.66 oz]			
Housing Material	Polycarbonate (PC)/ABS, (black)						
Connection	Connector with max. wire 1.5 mm² (16AWG), 0.3 N torque						
Agency Approvals		cULus file E164	1155, CE, RoHS				

Please see our website www.AutomationDirect.com for complete engineering drawings.

tPIL-216 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



22.5 mm Panel-mount Electrical Buzzers

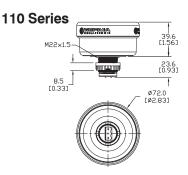




Buzzer without sound output holes

- · Mount in 22.5 mm hole
- · 8 selectable tones
- Adjustable volume, 100 decibels maximum at one meter

DIMENSIONS mm [inches]



110 Series Buzzer Specifications					
Part Number	11000067 11000075				
Price	\$99.00	\$89.00			
Description	Buzzer Element with	selectable tones			
Voltage	115VAC	24V AC/DC			
Current Consumption	≤ 40mA	≤ 80mA			
Tone Frequency	1.6 and 3.4 kHz				
Maximum Volume	100dB @ 1m				
Tone Type	Multi-tonal, 8 selectable tones				
Life Duration	> 5000h				
Operating Temperature	-4°F to 122°F [-20°C to 50°C]				
Protection	IP65				
Weight	79g [2.79 oz] 64g [2.26 oz]				
Housing Material	Polycarbonate (PC)/ABS				
Connection	Connector with max. wire 1.5 mm ² (16AWG), 0.3 N torque				
Agency Approvals	cULus file E1641:	55, CE, RoHS			

Note: Refer to insert for available tones.

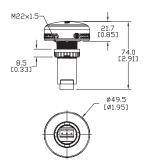
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



- Mount in 22.5 mm hole
- · LED permanent light indicator
- Continuous tone
- · Simple connection with connector plug
- 80 decibels volume at one meter

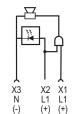
DIMENSIONS mm [inches]

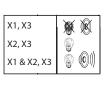
150 Series



150 Series	Buzzer with L	ED Indicator 9	Specifications		
Part Number	15010055	15010067	15030055	15030067	
Price	\$69.00	\$75.00	\$69.00	\$75.00	
Description		Buzzer element w	vith LED indicator		
LED Indicator	Re	d	Yell	OW	
Voltage	24VDC	115VAC	24VDC	115VAC	
Current Consumption	≤ 50mA	≤ 20mA	≤ 50mA	≤ 20mA	
Tone Frequency	2.8 kHz				
Maximum Volume	80dB @ 1m				
Tone Type	Continuous				
Life Duration	Up to 50,000h				
Operating Temperature	-4°F to 122°F [-20°C to 50°C]				
Protection	IP65				
Weight	30g [1.06 oz]	30g [1.06 oz]	30g [1.06 oz]	30g [1.06 oz]	
Housing Material	Cap: Polycarbonate. Base: Polycarbonate (PC)ABS - black				
Connection	Connector with max. wire 1.5 mm² (16AWG), 0.3 N torque				
Agency Approvals		cULus file E164	1155, CE, RoHS		

Wiring Diagram





Note: Buzzer will not sound without light energized.



22.5 mm Panel-mount Electrical Buzzers with Acknowledgment Function





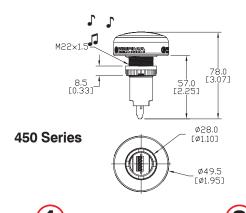
Buzzer without sound output holes

- Mount in 22.5 mm hole
- LED permanent light with continuous tone
- 80 decibels volume at one meter
- Lightly press to silence the audible signal
- Potential-free output for transmission of the acknowledgment signal to the control unit
- · Positive and negative logic

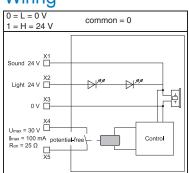
450 Series Buzzer Specifications					
Part Number	45010055	45030055			
Price	\$139.00	\$139.00			
Description	Buzzer element with acknow	vledgment function			
LED Indicator Color	Red	Yellow			
Voltage	24V /DC				
Current Consumption	≤ 0mA				
Tone Frequency	3kHz				
Maximum Volume	80dB @ 1m				
Max. Output (acknowledgment)	Solid State 30V, 100mA				
Tone Type	Continuous				
Life Duration	> 50,000h				
Operating Temperature	-4°F to 122°F [-20°	C to 50°C]			
Protection	IP65				
Weight	40g [1.41 oz]				
Housing Material	Cap: Polycarbonate. Body: Black Polycarbonate				
Connection	Connector plug with screwable connection max. 0.5 mm ² (20AWG)				
Agency Approvals	cULus file E164155	, CE, RoHS			

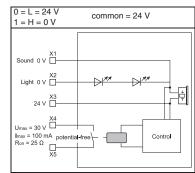
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

DIMENSIONS mm [inches]



Wiring







BEEP-BEEP BEEP

An initial alarm is indicated by both an illuminated and audible signal.



The audible signal can be silenced quickly by lightly pressing on the front of the indicator.



An acknowledge signal is then transmitted via an electronic switch, and the alarm is now only indicated by the illuminated visual signal.

tPIL-218 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5



Bracket-mount Signal Horns/Buzzer



482 Series Features

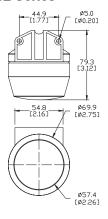
- Bracket mounting
- Continuous tone
- 70mm diameter

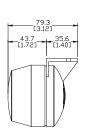


482 Series Signal Horns and Buzzer Specifications					
Part Number	48205255	48205267	48234715		
Price	\$39.00	\$38.00	\$45.00		
Description	Signa	l Horn	Buzzer		
Voltage	24VDC	115VAC	24VDC		
Current Consumption	70mA	15mA	70mA		
Tone Frequency	500Hz	100Hz	500Hz		
Maximum Volume	92dB @ 1m 83dB @ 1n				
Tone Type	Continuous				
Life Duration	> 300h				
Operating Temperature	-20°C to 60°C [-4° to 140°F]				
Protection	IP33				
Weight	160g [5.64 oz]				
Housing Material	High impact ABS				
Connection	Connector v	vith max. wire 1.5 mm²,	18-16 AWG		
Agency Approvals		CE, RoHS			

DIMENSIONS mm [in]

482 Series





570 Series Horns Features

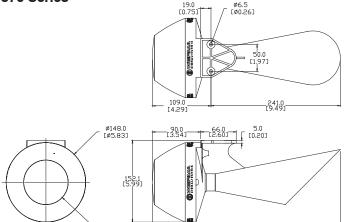
- Bracket mounting
- Continuous tone
- 148mm diameter

570 Series Sig	<mark>jnal Horns Speci</mark> t	fications	
Part Number	57005255	57005267	
Price	\$115.00	\$97.00	
Description	Signa	l Horn	
Voltage	24VDC	115VAC	
Current Consumption	350mA	200mA	
Tone Frequency	150Hz	100Hz (supply frequency)	
Maximum Volume	108dB @ 1m		
Tone Type	Conti	nuous	
Life Duration	> 2	50h	
Operating Temperature	-20°C to 60°C	[-4° to 140°F]	
Protection	IP	55	
Weight	880g [31.04 oz]	860g [30.34 oz]	
Housing Material	ABS/PC		
Connection	Screwable connection max. 2.5 mm² single wire, 18-14 AWG		
Agency Approvals	CE, I	RoHS	

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

DIMENSIONS mm [in]

570 Series



Please see our website www.AutomationDirect.com for complete engineering drawings.

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WERMA SIGNALTECHNIK

Bracket-mount Signal Horns

571 Series Horns Features

- Corrosion-resistant aluminum housing, salt water proof
 Bracket mounting
- Continuous tone
- 132mm diameter

571 Series Signa	Horns Specific	cations	
Part Number	57105255	57105267	
Price	\$357.00	\$326.00	
Description	Signa	l Horn	
Voltage	24VDC	115VAC	
Current Consumption	350mA	200mA	
Tone Frequency	150Hz	100Hz (supply frequency)	
Maximum Volume	108dB @ 1m		
Tone Type	Conti	nuous	
Life Duration	> 2	50h	
Operating Temperature	-20°C to 60°C	[-4° to 140°F]	
Protection	IP.	55	
Weight	880g [31.04 oz]	860g [30.34 oz]	
Housing Material	Aluminum		
Connection	Screwable connection max. 2.5 mm ² single wire, 18-14 AWG		
Agency Approvals	CE, I	RoHS	

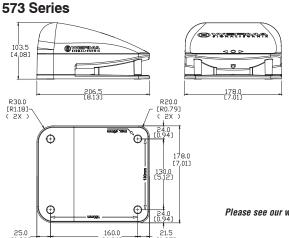


573 Series Horns Features

- Modern electro-mechanical design
 Bracket mounting
- Continuous tone
- 178mm diameter



DIMENSIONS mm [in]



573 Series Signal Horns Specifications				
Part Number	<i>57300055</i>	57300067		
Price	\$154.00	\$123.00		
Description	Signal	Horn		
Voltage	24VDC	115VAC		
Current Consumption	350mA	200mA		
Tone Frequency	150Hz	100Hz (supply frequency)		
Maximum Volume	105dB @ 1m			
Tone Type	Continuous			
Life Duration	> 25	50h		
Operating Temperature	-30°C to 50°C [-22° to 122°F]			
Protection	IP	65		
Weight	1200g [42.33 oz]	1150g [40.57 oz]		
Housing Material	Polycarbornate/ABS-blend			
Connection	Screwable connection max. 2.5 mm ² single wire, 18-14 AWG			
Agency Approvals To obtain the most current ag	- ,	RoHS		

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

Please see our website www.AutomationDirect.com for complete engineering drawings.

tPIL-220 Pilot Devices 1 - 8 0 0 - 6 3 3 - 0 4 0 5

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Audible Signal Devices



Bracket-mount Signal Horns



582 Series Horns Features

- Small electro-mechanical horn with trumpet Bracket mounting
- · Continuous tone
- 70mm diameter

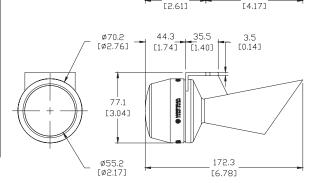




DIMENSIONS	mm [in]
582 Series	

582 Series Signal Horns and Buzzer Specifications		
Part Number	58205255	<i>58205267</i>
Price	\$45.00	\$45.00
Description	Signal Horn	
Voltage	24VDC	115VAC
Current Consumption	70mA	15mA
Tone Frequency	500Hz	100Hz
Maximum Volume	92dB @ 1m	
Tone Type	Continuous	
Life Duration	> 300h	
Operating Temperature	-20°C to 60°C [-4° to 140°F]	
Protection	IP33	
Weight	200g [7.05 oz]	
Housing Material	High impact ABS	
Connection	Connector with max. wire 1.5 mm ² , 18-16 AWG	
Agency Approvals	CE, RoHS	

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com



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