1-800-633-0405 **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.

50.0 [1.97]

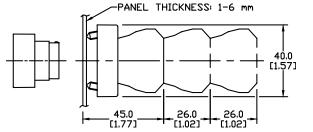
Dimensions

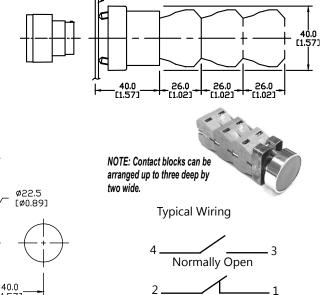
Pushbuttons and selector switches

Illuminated pushbuttons and selector switches/ indicator lights

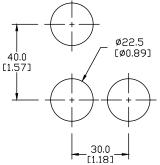
PANEL THICKNESS: 1-6 mm

mm [inches]





Mounting



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

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

Normally Closed x1 _

Specifications

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

Phy	vsical Specifications	Electri	ical Specifications
Standards Reference	CEI EN 60947-5-1, CSA C22-2 n.14	Rated Thermal Current (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)
Approvals	UL File E189258, IMQ (where specified)		Ui 660V according to CEI EN 60947-5-1,
Enclosure Material	Fiberglass reinforced thermoplastic	Rated Insulation Voltage	300V according to CSA C22-2 n.14 and UL 508
Contacts Material	Silver	Dielectric Strength	3kV (1 second)
	IP40 for <u>GCX3151-24</u> , <u>GCX3151-120</u> , <u>GCX3153-24</u> and <u>GCX3153-120</u> . IP65 for all others.(See Appendix of this	Insulation Resistance	2MΩ min. (500VDC)
Protection Degree	catalog for explanation of IP ratings according to IEC 144	Initial Contact Resistance	≤ 25mΩ
	CEI 70-1.)	Short-Circuit Protection*	Cartridge fuses gl 10 A-500V 10, 3x38l1 100 KA
Electric Shock Protection	IEC 536, Class II	Terminal Markings	According to CENELEC EN 50013
Temperature Ratings	Storage: -40 -to 80°C (-40 to 176° F) Operating: -25° to +70°C (-13° to 158° F)	Connections	Single screw with non-loosening plate clamp,14AWG max.,Tighten to 0.8Nm max
Working Positions	All working positions are allowed	Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow- action, positive opening
POSILIONS		Operation Frequency	3600 operations per hour max.
Mechanical Life	Pushbuttons, selector switches, joy stick switches: 1,000,000 operations Emergency mushrooms and push-push pushbuttons: 300,000 operations	Utilization Category	AC15 (Control of AC electromagnetic loads) 24 volts AC at 10 amps 130 volts AC at 6.5 amps DC12 (Control of DC electromagnetic loads)
Positive Opening Operation	(according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation		DC13 (Control of DC electromagnetic loads) 24 volts DC at 1.5 amps 110 volts DC at 0.5 amps
		*Note: Recommended, not supp	lied

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x2

Indicator

GCX Series 22mm Plastic Pushbuttons

Momentary Flush Pushbuttons with protective plastic ring (30mm dia. actuator)



<u>GCX3102</u>

Momentary Flush Pushbuttons								
Part Number	Color	Price	Drawing Link	Description				
<u>GCX3100</u>	Black	\$5.00	PDF	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole				
<u>GCX3101</u>	Red	\$5.00	PDF	One N.C. contact block, 30mm dia. actuator, mounts in 22mm hole				
GCX3102	Green	\$5.00	PDF					
<u>GCX3103</u>	Yellow	\$5.00	PDF					
<u>GCX3104</u>	Blue	\$5.00	<u>PDF</u>	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole				
<u>GCX3105</u>	White	\$5.00	<u>PDF</u>					

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





Momentary Flush ON/OFF Pushbuttons							
Part Number	Color	Price	Drawing Link	Description			
<u>GCX3106</u>	Red with OFF symbol (O) on actuator	\$5.75	PDF	One N.C. contact block,30mm dia. actuator, mounts in 22mm hole			
<u>GCX3107</u>	Green with ON symbol (I) on actuator	\$5.75	PDF	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole			

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

GCX Series 22mm Plastic Pushbuttons

Momentary Extended Pushbuttons



<u>GCX3113</u>

Momentary Extended Pushbuttons							
Part Number	Color	Price	Drawing Link	Description			
<u>GCX3110</u>	Black	\$5.75	PDF	One N.O. contact block, extended 30mm dia. actuator, mounts in 22mm hole			
<u>GCX3111</u>	Red	\$5.75	PDF	One N.C. contact block, extended 30mm dia. actuator, mounts in 22mm hole			
<u>GCX3112</u>	Green	\$5.75	PDF				
<u>GCX3113</u>	Yellow	\$5.75	PDF	One N.O. contact block, extended 30mm dia. actuator, mounts in 22mm hole			
<u>GCX3114</u>	Blue	\$5.75	PDF	one N.O. contact block, extended Somm dia. actuator, mounts in 22mm hole			
<u>GCX3115</u>	White	\$5.75	PDF				

Double-Headed Momentary Pushbuttons



GCX3152 (with on/off symbols)



GCX3151-24

	Double-headed Momentary Pushbuttons Description							
Part Number	Price	Drawing Link	Description					
<u>GCX3150</u>	\$10.50	PDF	Double-headed for on/off control, One N.O. and one N.C. contact block, fits in 22mm dia. hole, without symbols					
<u>GCX3151-24</u>	\$16.50	PDF	24VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole					
<u>GCX3151-120</u>	\$17.00	PDF	120VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole					
<u>GCX3152</u>	\$11.50	PDF	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					
<u>GCX3153-24</u>	\$17.00	PDF	24VDC/VAC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block					
<u>GCX3153-120</u>	\$17.50	PDF	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.

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

GCX Series 22mm Plastic Pushbuttons without Contact Block

Momentary Flush Pushbutton Operator (without contact block) (30mm dia. actuator)

Momentary Flush Pushbutton Operators							
Part Number	Color	Price	Drawing Link	Description			
<u>GCX3100-SC</u>	Black	\$2.50	<u>PDF</u>	22mm plastic pushbutton operator, flush, includes 30mm diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole.			
<u>GCX3101-SC</u>	Red	\$2.50	PDF	22mm plastic pushbutton operator, flush, includes 30mm diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole.			
<u>GCX3102-SC</u>	Green	\$2.50	<u>PDF</u>	22mm plastic pushbutton operator, flush, includes 30mm diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole.			

NOTE: Contact block sold separately. See accessories.



GCX3100-SC



GCX3101-SC

Momentary Extended Pushbutton Operator (without contact block)(30mm dia. actuator)

Momentary Extended Pushbutton Operators							
Part Number	Color	Price	Drawing Link	Description			
<u>GCX3110-SC</u>	Black	\$2.50	PDF	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.			
<u>GCX3111-SC</u>	Red	\$2.50	PDF	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.			
<u>GCX3112-SC</u>	Green	\$2.50	PDF	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.			



GCX3111-SC

NOTE: Contact block sold separately. See accessories.

Contact Blocks

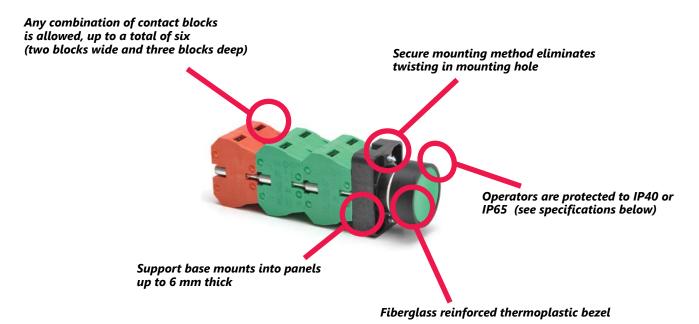
Contact blocks are available for all these products. See accessories.



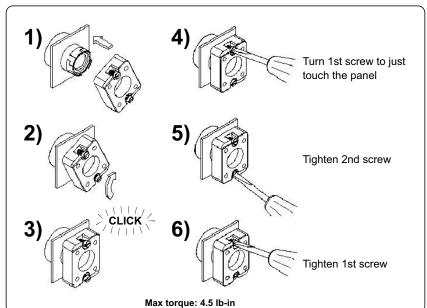
For accessories, see 22mm Plastic Pilot Device Accessories in this section.

GCX Series 22mm Plastic Pilot Devices

Features

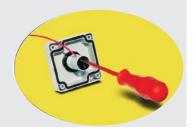


Easy installation





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)



Clear contact block for illustration

AWG wire

Pressure plate wiring

terminals for easy, secure

wiring, accepting up to 14

www.automationdirect.com

purposes. Clear contact blocks are not available for sale from

www.AutomationDirect.com

For the latest prices, please check AutomationDirect.com.

22mm Plastic Pilot Device Accessories

Replacement Incandescent Bulbs



ECX1902-5

Replacement LED Lamps



ECX1915-2

Hole Plug



ECX1490

Protective Covers for Pushbuttons



ECX1703-5

Knockout Punches



<u>109225</u>

Replacement Keys



www.automationdirect.com

Replacement Incandescent Bulbs							
Part Number	Quantity	Price	Rating	Description			
<u>ECX1900-5</u>	5	\$9.50	6V@ 200mA 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4			
<u>ECX1902-5</u>	5	\$9.50	24V@ 80mA 2 watts	24V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4			
<u>ECX1904-5</u>	5	\$20.00	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								
Part Number	Color	Quantity	Price	Rating	Description				
ECX1911-2	Red		\$17.50						
ECX1912-2	Green		\$22.00						
ECX1913-2	Yellow]	\$17.50 \$23.50	0.6 watts	LED replacement lamp for miniature bayonet bases Works with 22mm switches and indicators, but				
ECX1914-2	Blue								
ECX1915-2	White		\$28.00		illumination will not be as even when used with the				
ECX1921-2	Red	2	\$17.50		ECX 22mm indicators				
ECX1922-2	Green		\$22.00	1001/05	Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.				
ECX1923-2	Yellow]	\$17.50	120V@5mA 0.6 watts	monobiock LED indicators.				
ECX1924-2	Blue		\$23.50	0.0 watto					
ECX1925-2	White		\$28.00						

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	
<u>ECX1490</u>	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					
<u>ECX1700-5</u>	Black		\$7.50						
<u>ECX1701-5</u>	Red	-	\$7.50	Silicone protective covers for use with 22mm standard-size flush					
ECX1702-5	Green		\$7.50	pushbuttons. Will not work with Cutler-Hammer pushbuttons, 22mm plastic					
ECX1703-5	Yellow		\$7.50	illuminated or extended pushbuttons, or 22mm plastic pushbuttons					
ECX1704-5	Blue	5	\$7.50	with 40mm actuator face.					
<u>ECX1705-5</u>	Clear		\$7.50						
<u>ECX1706-5</u>	Clear		\$13.00	Clear silicone protective covers for use with 22mm illuminated and extended pushbuttons only. Will not work with Cutler-Hammer pushbuttons or 22mm mushroom pushbuttons.					

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.

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

Replacement Keys					
Part Number	Quantity	Price	Description		
<u>ECX1067-2</u>	2	\$6.50	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.

1-800-633-0405 **22mm Plastic Pilot Device Accessories**

Replacement 22mm Support Base

Replacement 22mm Support Base					
Part Number Quantity Price Drawing Link Description					
<u>ECX3029-2</u>	1	\$1.75	<u>PDF</u>	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 AutomationDirect	

Replacement Contact Blocks

Replacement Contact Blocks							
Part Number	Quantity	Price	Drawing Link	Contacts	Description		
<u>ECX1030-2</u>	2	\$7.25	PDF	Red,	Replacement contact block for 22mm pushbuttons and		
<u>ECX1030-5</u>	5	\$17.00	PDF	normally-closed (N.C.)	selector switches. Tightening Torque, terminal screw: 0.8 N⋅m max		
<u>ECX1040-2</u>	2	\$7.25	PDF	Green,	mounting screw: 0.5 N·m max Note: Will not work with Cutler-Hammer 22mm switches		
<u>ECX1040-5</u>	5	\$17.00	PDF	normally-open (N.O.)	sold by AutomationDirect		
ECX1042-2	2	\$7.25	PDF	Brown, normally-open (N.O.), push-push	Use on lighted Push-push button only		



ECX1030-2

Note: See electrical specifications on GCX Series 22mm Plastic Pilot Devices

EMERGENCY STOP Legend Plate

EMERGENCY STOP Legend Plate				
Part Number	Quantity	Price	Drawing Link	Description
<u>ECX1651</u>	1	\$2.75	<u>PDF</u>	Oversize yellow circular EMERGENCY STOP legend plate for 22mm E-stop type mushroom pushbuttons, 60mm outside diameter.



Two-Position Short Lever Pperator

Short Lever Replacement Operator							
Part Number	Lamp Color			Use with			
<u>GR1172PR-5</u>	Red	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1172PV-5</u>	Green	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with			
<u>GR1172PG-5</u>	Yellow	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1172PB-5</u>	Blue	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	GCX324, GCX325			
<u>GR1172PN-5</u>	Clear	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				







ECX3029-2

1-800-633-0405 For the latest prices, please check **22mm Plastic Pilot Device Accessories**

Three-Position Short Lever Operator

Short Lever Replacement Operator							
Part Number	Lamp Color Price		3-Position	Use with			
<u>GR1288PR-5</u>	Red	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1288PV-5</u>	Green	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128 GCX326, GVX328			
<u>GR1288PG-5</u>	Yellow	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1288PB-5</u>	Blue	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1288PN-5</u>	Clear	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				



GR1288PR-5

Mushroom Switch Replacement Operator

	Mushroom Switch Replacement Operator							
Part Number	Lamp Color	Price	Description	Use with				
<u>PL1171PR-5</u>	Red	\$7.25	22mm, illuminated momentary Mushroom switch replacement operator, red, 5/pk	Part numbers starting with GCX1221, GCX3221 mushroom-style illuminated pushbuttons				
<u>PL1298P-5</u>	Red	\$7.25	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

Flush Pushbutton Replacement Operator							
Part Number	Lamp Color Price Description		Use with				
<u>GR1168PR-5</u>	Red	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk				
<u>GR1168PV-5</u>	Green	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk				
<u>GR1168PG-5</u>	Yellow	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk	Part numbers starting with			
<u>GR1168PB-5</u>	Blue	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX119, GCX120 GCX319, GCX320			
<u>GR1168PN-5</u>	Clear	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk				
<u>GR1168PW-5</u>	White	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk				



Extended Pushbutton Replacement Operator

Extended Pushbutton Replacement Operator							
Part Number	r Lamp Price Description		Use with				
PL1308PR-5	Red	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk				
PL1308PV-5	Green	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk				
<u>PL1308PG-5</u>	Yellow	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk	Part numbers starting with			
<u>PL1308PB-5</u>	Blue	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk	GCX121, GCX321			
PL1308PN-5	Clear	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk				
<u>PL1308PW-5</u>	White	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk				



22mm Plastic Pilot Device Accessories

Legend Plates

Plastic legend plates for use with 22mm pilot devices. White engraved text on colored background. O-ring included.



ECX1670-B07

P	lastic	Legend Plate	S	
Legend	Color of Field	Part Number	Price	Drawing Link
AUTO OFF HAND	Black	<u>ECX1670-B46</u>	\$3.75	PDF
Blank Plate	Black	<u>ECX1670-B</u>	\$3.00	PDF
Blank Plate	Red	<u>ECX1670-R</u>	\$3.00	PDF
CLAMP	Black	<u>ECX1670-B24</u>	\$3.75	PDF
CLOSE	Black	<u>ECX1670-B01</u>	\$3.00	PDF
DOWN	Black	<u>ECX1670-B02</u>	\$3.00	PDF
EMERG. STOP	Red	<u>ECX1670-R03</u>	\$3.00	PDF
EXTEND	Black	<u>ECX1670-B51</u>	\$3.75	PDF
FEEDER OFF	Black	<u>ECX1670-B26</u>	\$3.75	PDF
FEEDER ON	Black	<u>ECX1670-B25</u>	\$3.75	<u>PDF</u>
FOR OFF REV	Black	<u>ECX1670-B19</u>	\$3.00	PDF
FOR-REV	Black	<u>ECX1670-B13</u>	\$3.00	PDF
FORWARD	Black	<u>ECX1670-B04</u>	\$3.00	PDF
GRIP	Black	<u>ECX1670-B53</u>	\$3.75	PDF
HAND-AUTO	Black	<u>ECX1670-B14</u>	\$3.00	PDF
HAND OFF AUTO	Black	<u>ECX1670-B20</u>	\$3.00	PDF
HIGH	Black	<u>ECX1670-B27</u>	\$3.75	<u>PDF</u>
HIGH LOW	Black	ECX1670-B43	\$3.75	PDF
IN	Black	<u>ECX1670-B28</u>	\$3.75	PDF
INCH	Black	<u>ECX1670-B29</u>	\$3.75	PDF
JOG	Black	<u>ECX1670-B05</u>	\$3.00	PDF
JOG FOR	Black	<u>ECX1670-B30</u>	\$3.75	PDF
JOG REV	Black	<u>ECX1670-B31</u>	\$3.75	PDF
JOG-RUN	Black	<u>ECX1670-B15</u>	\$3.00	PDF
LOW	Black	ECX1670-B32	\$3.75	PDF
LOWER	Black	<u>ECX1670-B33</u>	\$3.75	PDF

Note: Legend plate text is 3mm in height



Plastic Legend Plates							
Legend	Color of Field	Part Number	Price	Drawing Link			
MAN AUTO	Black	ECX1670-B44	\$3.75	<u>PDF</u>			
MAN OFF AUTO	Black	ECX1670-B47	\$3.75	PDF			
MOTOR RUN	Black	<u>ECX1670-B22</u>	\$3.00	<u>PDF</u>			
MOTOR STOP	Black	ECX1670-B23	\$3.00	PDF			
OFF	Black	ECX1670-B34	\$3.75	PDF			
OFF-ON	Black	ECX1670-B16	\$3.00	PDF			
ON	Black	ECX1670-B06	\$3.00	PDF			
OPEN	Black	ECX1670-B07	\$3.00	PDF			
OPEN OFF CLOSE	Black	ECX1670-B48	\$3.75	PDF			
OPEN-CLOSE	Black	ECX1670-B17	\$3.00	<u>PDF</u>			
Ουτ	Black	ECX1670-B35	\$3.75	<u>PDF</u>			
POWER ON	Black	<u>ECX1670-B21</u>	\$3.00	<u>PDF</u>			
PULL ON PUSH OFF	Black	<u>ECX1670-B50</u>	\$3.75	<u>PDF</u>			
RAISE	Black	<u>ECX1670-B36</u>	\$3.75	<u>PDF</u>			
READY	Black	<u>ECX1670-B37</u>	\$3.75	<u>PDF</u>			
RELEASE	Black	<u>ECX1670-B54</u>	\$3.75	<u>PDF</u>			
RESET	Black	<u>ECX1670-B38</u>	\$3.75	<u>PDF</u>			
RETRACT	Black	<u>ECX1670-B52</u>	\$3.75	<u>PDF</u>			
REVERSE	Black	<u>ECX1670-B08</u>	\$3.00	<u>PDF</u>			
RUN	Black	<u>ECX1670-B09</u>	\$3.00	<u>PDF</u>			
SAFE RUN	Black	<u>ECX1670-B45</u>	\$3.75	<u>PDF</u>			
START	Black	<u>ECX1670-B10</u>	\$3.00	<u>PDF</u>			
STOP	Black	<u>ECX1670-B11</u>	\$3.00	<u>PDF</u>			
STOP	Red	<u>ECX1670-R11</u>	\$3.00	<u>PDF</u>			
TEST	Black	<u>ECX1670-B39</u>	\$3.75	<u>PDF</u>			
TRANSFER	Black	<u>ECX1670-B40</u>	\$3.75	<u>PDF</u>			
TRIP	Black	<u>ECX1670-B41</u>	\$3.75	<u>PDF</u>			
UNCLAMP	Black	<u>ECX1670-B42</u>	\$3.75	PDF			
UP	Black	ECX1670-B12	\$3.00	PDF			
UP OFF DOWN	Black	<u>ECX1670-B49</u>	\$3.75	PDF			
UP-DOWN	Black	<u>ECX1670-B18</u>	\$3.00	PDF			

22mm Plastic Pilot Device Accessories



ECX1690-B16



ECX1690-R11

Jumbo Plastic Legend Plates						
Legend	Color of Field	Part Number	Price	Drawing Link		
Blank Plate	Black	<u>ECX1690-B</u>	\$3.75	PDF		
Blank Plate	Red	<u>ECX1690-R</u>	\$3.75	PDF		
EMERG. STOP	Red	<u>ECX1690-R03</u>	\$3.75	PDF		
HAND-OFF-AUTO	Black	ECX1690-B20	\$3.75	PDF		
JOG	Black	ECX1690-B05	\$3.75	PDF		
OFF-ON	Black	ECX1690-B16	\$3.75	PDF		
OPEN-CLOSE	Black	ECX1690-B17	\$3.75	PDF		
POWER ON	Black	ECX1690-B21	\$3.75	PDF		
START	Black	ECX1690-B10	\$3.75	<u>PDF</u>		
STOP	Red	<u>ECX1690-R11</u>	\$3.75	PDF		

Note: Legend plate text is 3mm in height

1-800-633-0405 **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.

50.0 [1.97]

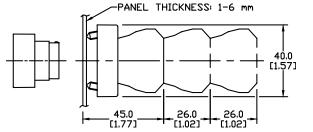
Dimensions

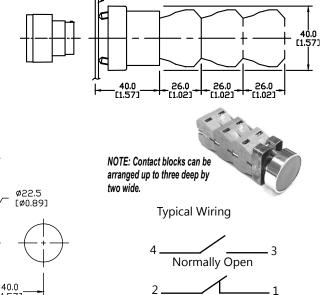
Pushbuttons and selector switches

Illuminated pushbuttons and selector switches/ indicator lights

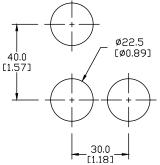
PANEL THICKNESS: 1-6 mm

mm [inches]





Mounting



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

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

Normally Closed x1 _

Specifications

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

Phy	vsical Specifications	Electri	ical Specifications
Standards Reference	CEI EN 60947-5-1, CSA C22-2 n.14	Rated Thermal Current (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)
Approvals	UL File E189258, IMQ (where specified)		Ui 660V according to CEI EN 60947-5-1,
Enclosure Material	Fiberglass reinforced thermoplastic	Rated Insulation Voltage	300V according to CSA C22-2 n.14 and UL 508
Contacts Material	Silver	Dielectric Strength	3kV (1 second)
	IP40 for <u>GCX3151-24</u> , <u>GCX3151-120</u> , <u>GCX3153-24</u> and <u>GCX3153-120</u> . IP65 for all others.(See Appendix of this	Insulation Resistance	2MΩ min. (500VDC)
Protection Degree	catalog for explanation of IP ratings according to IEC 144	Initial Contact Resistance	≤ 25mΩ
	CEI 70-1.)	Short-Circuit Protection*	Cartridge fuses gl 10 A-500V 10, 3x38l1 100 KA
Electric Shock Protection	IEC 536, Class II	Terminal Markings	According to CENELEC EN 50013
Temperature Ratings	Storage: -40 -to 80°C (-40 to 176° F) Operating: -25° to +70°C (-13° to 158° F)	Connections	Single screw with non-loosening plate clamp,14AWG max.,Tighten to 0.8Nm max
Working Positions	All working positions are allowed	Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow- action, positive opening
POSILIONS		Operation Frequency	3600 operations per hour max.
Mechanical Life	Pushbuttons, selector switches, joy stick switches: 1,000,000 operations Emergency mushrooms and push-push pushbuttons: 300,000 operations	Utilization Category	AC15 (Control of AC electromagnetic loads) 24 volts AC at 10 amps 130 volts AC at 6.5 amps DC12 (Control of DC electromagnetic loads)
Positive Opening Operation	(according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation		DC13 (Control of DC electromagnetic loads) 24 volts DC at 1.5 amps 110 volts DC at 0.5 amps
		*Note: Recommended, not supp	lied

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x2

Indicator