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



GCX1231-24L

	22mm LED Pilot Lights								
Part Number	Lamp Color	Price	Drawing Link	Description	Replacement Incandescent Bulb 5 per pack	Replacement LED Lamp 2 per pack			
LED									
GCX1231-24L	Red	\$18.00	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1911-2, 26mA			
GCX1231-120L	Red	\$19.50	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5, 20mA	ECX1921-2, 5mA			
GCX1232-24L	Green	\$18.00	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1912-2, 26mA			
GCX1232-120L	Green	\$19.50	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5, 20mA	ECX1922-22, 5mA			
GCX1233-24L	Yellow	\$18.00	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1913-2, 26mA			
GCX1233-120L	Yellow	\$19.50	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5, 20mA	ECX1923-2, 5mA			
GCX1234-24L	Blue	\$18.00	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1914-2, 26mA			
GCX1234-120L	Blue	\$19.50	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5, 20mA	ECX1924-2, 5mA			
GCX1235-24L	Clear	\$20.50	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1915-2, 26mA			
GCX1235-120L	Clear	\$22.00	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5, 20mA	ECX1925-2, 5mA			
GCX1236-24L	White	\$20.50	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1915-2, 26mA			
GCX1236-120L	White	\$22.00	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5, 20mA	ECX1925-2, 5mA			

Key-Operated Selector Switches

	22mm Key-operated Selector Switches							
Part Number	Price	Drawing Link	Description					
GCX1420	\$22.50	PDF	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	\$22.50	PDF	22mm metal selector switch, key-operated, two-position spring-return from right. One N.O. contact block. Replacement keys available					
GCX1470-22	\$32.50	PDF	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					



GCX1420



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.

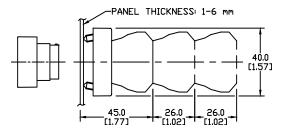
GCX Series 22mm Metal Pilot Devices Specifications

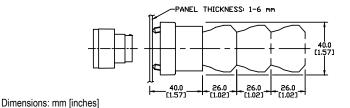
Assembly information

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.

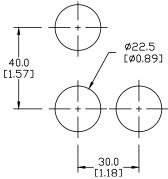
Pushbuttons and selector switches

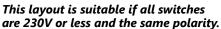
Illuminated pushbuttons and selector switches/pilot lights

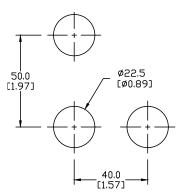




Mounting

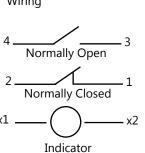






This layout is suitable if all switches are 400V or less and different polarity.

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



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	IP40 for GCX3151-24,GCX3151-120, GCX3153-24 and GCX3153-120. IP65 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			

Electrica	l 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

Replacement Incandescent Bulbs

Replacement Incandescent Bulbs								
Part Number	Quantity	Price	Rating	Description				
ECX1900-5	5	\$10.50	6V@ 200mA , 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				
ECX1902-5	5	\$10.50	24V@ 80mA 2 watts	24V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				
ECX1904-5	5	\$22.00	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

	Replacement LED Lamps								
Part Number	Color	Quantity	Price	Rating	Description				
ECX1911-2	Red		\$19.00						
ECX1912-2	Green		\$24.00						
ECX1913-2	Yellow		\$19.00	24V@26mA 0.6 watts					
ECX1914-2	Blue		\$26.00		LED replacement lamp for miniature bayonet bases Works with 22mm switches and indicators, but				
ECX1915-2	White	2	\$31.00		illumination will not be as even when used with the				
ECX1921-2	Red	2	\$19.00		ECX 22mm indicators				
ECX1922-2	Green		\$24.00] 	Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.				
ECX1923-2	Yellow		\$19.00	120V@5mA	120V@5mA 1101050600 EE5 Indicators	monopioon LED indicators.			
ECX1924-2	Blue		\$26.00	0.0 Walls					
ECX1925-2	White]	\$31.00						



Hole plug

Hole Plug					
Part Number	Color	Price	Description		
ECX1490	Black	\$3.00	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

Pilot Light Replacement Lens								
Part Number	Lamp Color Price		Description	Use with				
<u>PL1170PR-5</u>	Red	\$7.75	22mm metallic series pilot light replacement lens, 5/pk					
PL1170PV-5	Green	\$7.75	22mm metallic series pilot light replacement lens, 5/pk					
PL1170PG-5	Yellow	\$7.75	22mm metallic series pilot light replacement lens, 5/pk	Part numbers starting with				
PL1170PB-5	Blue	\$7.75	22mm metallic series pilot light replacement lens, 5/pk	GCX123				
PL1170PN-5	Clear	\$7.75	22mm metallic series pilot light replacement lens, 5/pk					
PL1170PW-5	White	\$7.75	22mm metallic series pilot light replacement lens, 5/pk					



Protective Covers for Pushbuttons

	Protective Covers for Pushbuttons									
Part Number	Color	Quantity	Price	Description						
ECX1700-5	Black		\$8.25							
ECX1701-5	Red	5	\$8.25	Ciliana protective covers for use with 22mm standard size flush pushbuttons						
ECX1702-5	Green		\$8.25	Silicone protective covers for use with 22mm standard-size flush pushbuttons.						
ECX1703-5	Yellow		\$8.25	Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or						
ECX1704-5	Blue		\$8.25	extended pushbuttons, or 22mm plastic pushbuttons with 40mm actuator face.						
ECX1705-5	Clear		\$8.25							
ECX1706-5	Clear		\$14.50	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.						



ECX1703-5

Replacement 22mm Support Base

Replacement 22mm Support Base							
Part Number	Quantity	Price	Drawing Link	Description			
ECX1029-2	1	\$7.75	<u>PDF</u>	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 AutomationDirect			



ECX1029-2

Replacement Contact Blocks

	Replacement Contact Blocks									
Part Number	Quantity	Price	Drawing Link	Contacts	Description					
ECX1030-2	2	\$8.00	PDF	Red,	Replacement contact block for 22mm pushbuttons and selector					
ECX1030-5	5	\$18.50	PDF	normally-closed (N.C.)	switches.					
ECX1040-2	2	\$8.00	PDF	Green,	Tightening Torque, terminal screw: 0.8Nm max mounting screw: 0.5Nm max					
ECX1040-5	5	\$18.50	<u>PDF</u>	normally-open (N.O.)	Note: Will not work with Cutler-Hammer 22mm switches.					
ECX1042-2	2	\$8.00	<u>PDF</u>	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.					



ECX1030-2

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

Replacement Keys

Replacement Keys					
Part Number	Quantity	Price	Description		
ECX1067-2	Pkg of 2 sets (2 keys per set)	\$7.25	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.		



ECX1067-2

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

EMERGENCY STOP Legend Plate

EMERGENCY STOP Legend Plate						
Part Number	Quantity	Price	Drawing Link	Description		
ECX1651	1	\$3.00	PDF	Oversize yellow circular EMERGENCY STOP legend plate for 22mm E-stop type mushroom pushbuttons, 60mm outside diameter.		



ECX1651

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

	2-Position Short Lever Replacement Operator							
Part Number	Lamp Color	Price	2-Position	Use with				
<u>GR1172PR-5</u>	Red	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk					
<u>GR1172PV-5</u>	Green	\$18.00 22mm 2-position selector switch illuminated short lever replacement operator, 5/pk		Part numbers starting with				
<u>GR1172PG-5</u>	Yellow	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	GCX124, GCX125 GCX324, GCX325				
GR1172PB-5	Blue	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk					
GR1172PN-5	Clear	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk					



GR1172PR-5

Three-Position Short Lever Operator

	3-Position Short Lever Replacement Operator							
Part Number	Lamp Price 3-Position		Use with					
GR1288PR-5	Red	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk					
<u>GR1288PV-5</u>	Green	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk					
<u>GR1288PG-5</u>	Yellow	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128 GCX326, GCX328				
GR1288PB-5	Blue	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	00/020, 00/020				
<u>GR1288PN-5</u>	Clear	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk					



GR1288PR-5

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Mushroom Switch Replacement Operator

Mushroom Switch Replacement Operator							
Part Number	Lamp Color	Price	Description	Use with			
PL1171PR-5	Red	\$8.00	22mm, illuminated momentary Mushroom switch replacement operator, red, 5/pk	Part numbers starting with GCX1221, GCX3221 mushroom-style illuminated pushbuttons			
PL1298P-5	Red	\$8.00	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			Use with				
GR1168PR-5	Red	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk					
GR1168PV-5	Green	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk					
GR1168PG-5	Yellow	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk	Part numbers starting with				
GR1168PB-5	Blue	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX119, GCX120 GCX319, GCX320				
GR1168PN-5	Clear	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk					
<u>GR1168PW-5</u>	White	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk					



Extended Pushbutton Replacement Operator

	Extended Pushbutton Replacement Operator							
Part Number	Lamp Color	Price	Description	Use with				
PL1308PR-5	Red	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PV-5	Green	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PG-5	Yellow	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk	Part numbers starting with				
PL1308PB-5	Blue	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk	GCX121, GCX321				
PL1308PN-5	Clear	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PW-5	White	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk					



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Legend Plates

Aluminum legend plates for use with 22mm pilot devices. Black or red field with silver background. O-ring included.





ECX1670A-B04

ECX1670A-R03

		Alumin	um Legend Pl	ates		
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
AUTO OFF HAND	Black	Black	Silver	ECX1670A-B46	\$4.25	PDF
Blank Plate	Black	-	Silver	ECX1670A-B	\$4.25	PDF
Blank Plate	Red	-	Silver	ECX1670A-R	\$4.25	PDF
CLAMP	Black	Black	Silver	ECX1670A-B24	\$4.25	PDF
CLOSE	Black	Black	Silver	ECX1670A-B01	\$4.25	PDF
DOWN	Black	Black	Silver	ECX1670A-B02	\$4.25	PDF
EMERG. STOP	Red	Red	Silver	ECX1670A-R03	\$4.25	PDF
EXTEND	Black	Black	Silver	ECX1670A-B51	\$4.25	PDF
FEEDER OFF	Black	Black	Silver	ECX1670A-B26	\$4.25	PDF
FEEDER ON	Black	Black	Silver	ECX1670A-B25	\$4.25	PDF
FOR OFF REV	Black	Black	Silver	ECX1670A-B19	\$4.25	PDF
FOR REV	Black	Black	Silver	ECX1670A-B13	\$4.25	PDF
FORWARD	Black	Black	Silver	ECX1670A-B04	\$4.25	PDF
GRIP	Black	Black	Silver	ECX1670A-B53	\$4.25	PDF
HAND-AUTO	Black	Black	Silver	ECX1670A-B14	\$4.25	PDF
HAND OFF AUTO	Black	Black	Silver	ECX1670A-B20	\$4.25	PDF
HIGH	Black	Black	Silver	ECX1670A-B27	\$4.25	PDF
HIGH LOW	Black	Black	Silver	ECX1670A-B43	\$4.25	PDF
IN	Black	Black	Silver	ECX1670A-B28	\$4.25	PDF
INCH	Black	Black	Silver	ECX1670A-B29	\$4.25	PDF
JOG	Black	Black	Silver	ECX1670A-B05	\$4.25	PDF
JOG FOR	Black	Black	Silver	ECX1670A-B30	\$4.25	PDF
JOG REV	Black	Black	Silver	ECX1670A-B31	\$4.25	PDF
JOG RUN	Black	Black	Silver	ECX1670A-B15	\$4.25	PDF
LOW	Black	Black	Silver	ECX1670A-B32	\$4.25	PDF
LOWER	Black	Black	Silver	ECX1670A-B33	\$4.25	PDF
MAN AUTO	Black	Black	Silver	ECX1670A-B44	\$4.25	PDF

Note: Legend plate text is 3mm in height

Continued on next page





ECX1670A-B48

ECX1670A-R11

	Alumin	um Leg	jend Plates (c	ontinued)		
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
MAN OFF AUTO	Black	Black	Silver	ECX1670A-B47	\$4.25	PDF
MOTOR RUN	Black	Black	Silver	ECX1670A-B22	\$4.25	PDF
MOTOR STOP	Black	Black	Silver	ECX1670A-B23	\$4.25	PDF
OFF	Black	Black	Silver	ECX1670A-B34	\$4.25	PDF
OFF ON	Black	Black	Silver	ECX1670A-B16	\$4.25	PDF
ON	Black	Black	Silver	ECX1670A-B06	\$4.25	PDF
OPEN	Black	Black	Silver	ECX1670A-B07	\$4.25	PDF
OPEN OFF CLOSE	Black	Black	Silver	ECX1670A-B48	\$4.25	PDF
OPEN CLOSE	Black	Black	Silver	ECX1670A-B17	\$4.25	PDF
оит	Black	Black	Silver	ECX1670A-B35	\$4.25	PDF
POWER ON	Black	Black	Silver	ECX1670A-B21	\$4.25	PDF
PULL ON PUSH OFF	Black	Black	Silver	ECX1670A-B50	\$4.25	PDF
RAISE	Black	Black	Silver	ECX1670A-B36	\$4.25	PDF
READY	Black	Black	Silver	ECX1670A-B37	\$4.25	PDF
RELEASE	Black	Black	Silver	ECX1670A-B54	\$4.25	PDF
RESET	Black	Black	Silver	ECX1670A-B38	\$4.25	PDF
RETRACT	Black	Black	Silver	ECX1670A-B52	\$4.25	PDF
REVERSE	Black	Black	Silver	ECX1670A-B08	\$4.25	PDF
RUN	Black	Black	Silver	ECX1670A-B09	\$4.25	PDF
SAFE RUN	Black	Black	Silver	ECX1670A-B45	\$4.25	PDF
START	Black	Black	Silver	ECX1670A-B10	\$4.25	PDF
STOP	Black	Black	Silver	ECX1670A-B11	\$4.25	PDF
STOP	Red	Red	Silver	ECX1670A-R11	\$4.25	PDF
TEST	Black	Black	Silver	ECX1670A-B39	\$4.25	PDF
TRANSFER	Black	Black	Silver	ECX1670A-B40	\$4.25	PDF
TRIP	Black	Black	Silver	ECX1670A-B41	\$4.25	PDF
UNCLAMP	Black	Black	Silver	ECX1670A-B42	\$4.25	PDF
UP	Black	Black	Silver	ECX1670A-B12	\$4.25	PDF
UP OFF DOWN	Black	Black	Silver	ECX1670A-B49	\$4.25	PDF
UP DOWN	Black	Black	Silver	ECX1670A-B18	\$4.25	PDF

Note: Legend plate text is 3mm in height

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ECX1680A-B17

ECX1680A-R03

	Jumbo Aluminum Legend Plates					
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
Blank Plate	Black	-	Silver	ECX1680A-B	\$4.75	PDF
Blank Plate	Red	1	Silver	ECX1680A-R	\$4.75	PDF
EMERG. STOP	Red	Red	Silver	ECX1680A-R03	\$4.75	PDF
HAND OFF AUTO	Black	Black	Silver	ECX1680A-B20	\$4.75	PDF
JOG	Black	Black	Silver	ECX1680A-B05	\$4.75	PDF
OFF ON	Black	Black	Silver	ECX1680A-B16	\$4.75	PDF
OPEN CLOSE	Black	Black	Silver	ECX1680A-B17	\$4.75	PDF
POWER ON	Black	Black	Silver	ECX1680A-B21	\$4.75	PDF
START	Black	Black	Silver	ECX1680A-B10	\$4.75	PDF
STOP	Red	Red	Silver	ECX1680A-R11	\$4.75	PDF

Note: Legend plate text is 3mm in height

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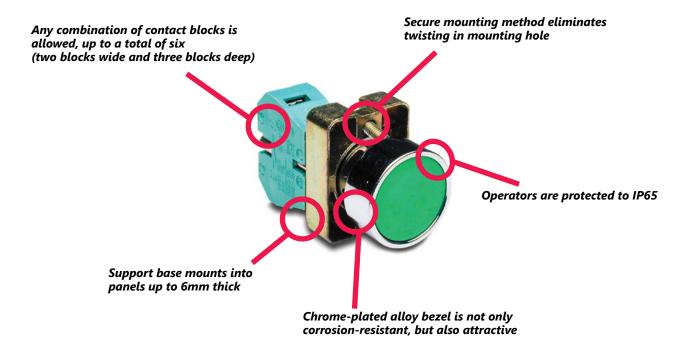
E22 Series Cross-reference Tables

	Pushbutton, Indicator Light, and Selector Switch Cross Reference						
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens			
		Non-Illuminated Pushbuttons					
<u>E22PB1A</u>	800EPF2 800E3LX10	ZA2BA2 ZA2BZ101	P9XPNNG10N0	3SB1000-0AB01 3SB02-CBH 3SB1400-0B			
<u>E22PB3A</u>	800EPF3 800E3LX10	ZA2BA3 ZA2BZ101	P9XPNVG10N0	3SB1000-0AE01 3SB02-CBH 3SB1400-0B			
<u>E22EB2B</u>	800EPE4 800E3LX01	ZA2BL4 ZA2BZ102	P9XPNRS20N0	3SB1000-0LC01 3SB02-CBH 3SB1400-0B			
E22ASB204	ENCLSR: 800E-2P 800EP-F3 800E-2LX10 800EP-E4 800E-2LX01 800E-34BE208 800E-34R212	XALB211 Both flush - stop is not extended	P9CPNRSN20NO P9CPNVGN10NO P9EPB02 P9AEPN201 P9AEPN202	3SB02-S21			
		Illuminated Pushbuttons					
<u>E22TB2X4B</u>	800EPLE4 800E3DL3 800E3X01	ZA2BW14 ZA2BW06224	P9XPLRSDN12NADI	3SB1001-OLC01 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-OB			
E22TB9X10A	800DPLE5 800E2RL5 800E3X10	ZA2BW15 ZA2B2061120	P9XPLASD P9PRNVJ P9PDNVD	3SB02-UPR1P 3SB1910-0DD 3SB1400-0B			

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GCX Series 22mm Metal Pilot Devices

Features



Easy installation

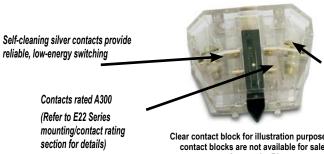


To remove operator, press toward support base and twist counterclockwise.



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.



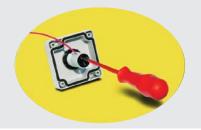


Clear contact block for illustration purposes. Clear contact blocks are not available for sale from AutomationDirect.

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

> Minimum current rating 15mA @ 24vdc

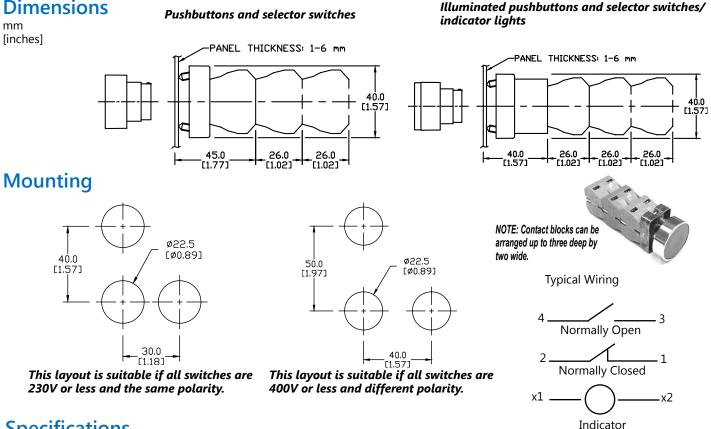
All indicators offer side wire entry with back screw terminals for easy wiring



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.



Specifications

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

Phy	sical 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	IP40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP65 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		

Electri	ical 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	≤ 25mΩ
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

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