### 1-800-633-0405 **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			Replacement LED Lamp 2 per pack		
LED								
GCX1231-24L	Red	\$;0df7:	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	<u>ECX1911-2,</u> 26mA		
GCX1231-120L	Red	\$;0df6:	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	<u>ECX1904-5,</u> 20mA	<u>ECX1921-2,</u> 5mA		
GCX1232-24L	Green	\$;0df9:	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1912-2, 26mA		
GCX1232-120L	Green	\$;0df8:	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	<u>ECX1904-5,</u> 20mA	<u>ECX1922-2</u> 2, 5mA		
GCX1233-24L	Yellow	\$;0dfb:	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	ECX1902-5, 80mA	ECX1913-2, 26mA		
GCX1233-120L	Yellow	\$;0dfa:	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	<u>ECX1904-5,</u> 20mA	ECX1923-2, 5mA		
GCX1234-24L	Blue	\$;0dfd:	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	<u>ECX1902-5,</u> 80mA	<u>ECX1914-2,</u> 26mA		
GCX1234-120L	Blue	\$;0dfc:	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	<u>ECX1904-5,</u> 20mA	ECX1924-2, 5mA		
GCX1235-24L	Clear	\$;;0dff:	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	<u>ECX1902-5,</u> 80mA	<u>ECX1915-2,</u> 26mA		
GCX1235-120L	Clear	\$;0dfe:	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	ECX1904-5, 20mA	ECX1925-2, 5mA		
GCX1236-24L	White	\$;0dfh:	PDF	22mm metal LED illuminated pilot light. 24VDC/VAC	<u>ECX1902-5,</u> 80mA	<u>ECX1915-2,</u> 26mA		
GCX1236-120L	White	\$;0dfg:	PDF	22mm metal LED illuminated pilot light. 120VDC/VAC	<u>ECX1904-5,</u> 20mA	<u>ECX1925-2,</u> 5mA		

#### **Key-Operated Selector Switches**

	22mm Key-operated Selector Switches						
Part Number	Price	Drawing Link	Description				
<u>GCX1420</u>	\$0dk3:	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				
<u>GCX1430</u>	\$0dk4:	PDF	22mm metal selector switch, key-operated, two-position spring-return from right. One N.O. contact block. Replacement keys available				
<u>GCX1470-22</u>	\$0dk5:	<u>PDF</u>	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.

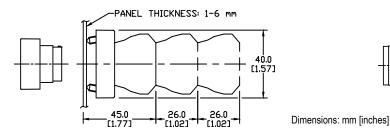
Note: For contact closure sequence, refer to beginning of selector switches in this section.

### 1-800-633-0405 **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



## Ø22.5 50.0 [1.97] [Ø0.89] 40.0

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

#### **Specifications**

Mounting

4Ó.O

[1.57]

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

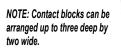
30.0

ø22.5

[Ø0.89]

Phy	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 <u>GCX3151-24,GCX3151-120</u> , <u>GCX3153-24</u> and <u>GCX3153-120</u> . 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				

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



Typical

Wiring

Illuminated pushbuttons and selector switches/pilot lights

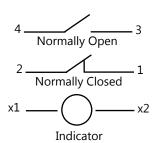
PANEL THICKNESS: 1-6 mm

26.0

26.0

26.0

40.0



40.0 [1.57]

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				
<b>Operation Frequency</b>	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	l I				

Note: Recommended, not supplied

#### **Replacement Incandescent Bulbs**

Replacement Incandescent Bulbs								
Part Number	Quantity	Price	Rating	Description				
<u>ECX1900-5</u>	5	\$0ec1:	6V@ 200mA , 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				
<u>ECX1902-5</u>	5	\$0ec2:	24V@ 80mA 2 watts	24V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				
<u>ECX1904-5</u>	5	\$0ec3:	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		\$0e9c:						
ECX1912-2	Green		\$0e9d:	24V@26mA 0.6 watts 120V@5mA 0.6 watts					
ECX1913-2	Yellow		\$0e9e:						
ECX1914-2	Blue		\$;0e9f:		LED replacement lamp for miniature bayonet bases Works with 22mm switches and indicators, but				
ECX1915-2	White	2	\$0e9g:		illumination will not be as even when used with the				
ECX1921-2	Red	2	\$0e9h:		ECX 22mm indicators				
ECX1922-2	Green		\$-0e9i:		Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.				
ECX1923-2	Yellow	,	\$-0e9j:						
ECX1924-2	Blue		\$0e9k:						
ECX1925-2	White		\$-0e9l:						



ECX1902-5



#### Hole plug

			Hole Plug
Part Number	Color	Price	Description
<u>ECX1490</u>	Black	\$;6b!:	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	\$;-dfi:	22mm metallic series pilot light replacement lens, 5/pk					
<u>PL1170PV-5</u>	Green	\$;-dfj:	22mm metallic series pilot light replacement lens, 5/pk					
<u>PL1170PG-5</u>	Yellow	\$;dfy:	22mm metallic series pilot light replacement lens, 5/pk	Part numbers starting with				
<u>PL1170PB-5</u>	Blue	\$;dfx:	22mm metallic series pilot light replacement lens, 5/pk	GCX123				
<u>PL1170PN-5</u>	Clear	\$;dfz:	22mm metallic series pilot light replacement lens, 5/pk					
<u>PL1170PW-5</u>	White	\$;dfk:	22mm metallic series pilot light replacement lens, 5/pk					



### **1-800-633-0405** For the latest prices, please che **22mm Metal Pilot Device Accessories**

#### **Protective Covers for Pushbuttons**

	Protective Covers for Pushbuttons								
Part Number	Color	Quantity	Price	Description					
<u>ECX1700-5</u>	Black		\$-4j9:						
ECX1701-5	Red	5	\$-4ja:	Ciliana aratative source for use with 20mm standard size fluck aughbuttane					
<u>ECX1702-5</u>	Green		\$-4jb:	Silicone protective covers for use with 22mm standard-size flush pushbuttons.					
<u>ECX1703-5</u>	Yellow		\$-4jc:	Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or					
<u>ECX1704-5</u>	Blue		\$-4jd:	extended pushbuttons, or 22mm plastic pushbuttons with 40mm actuator face.					
<u>ECX1705-5</u>	Clear		\$-4je:						
<u>ECX1706-5</u>	Clear		\$;-04jf:	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				
<u>ECX1029-2</u>	1	\$eaa:	<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					
<u>ECX1030-2</u>	2	\$dg3:	PDF	Red,	Replacement contact block for 22mm pushbuttons and selector					
<u>ECX1030-5</u>	5	\$0dg4:	PDF	normally-closed (N.C.)	switches.					
<u>ECX1040-2</u>	2	\$dg5:	PDF	Green,	Tightening Torque, terminal screw: 0.8Nm max mounting screw: 0.5Nm max					
<u>ECX1040-5</u>	5	\$0dg6:	PDF	normally-open (N.O.)	Note: Will not work with Cutler-Hammer 22mm switches.					
<u>ECX1042-2</u>	2	\$dg7:	<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.					

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	
<u>ECX1067-2</u>	Pkg of 2 sets (2 keys per set)	\$;6u]:	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.	



ECX1030-2

ECX1067-2

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

# 1-800-633-0405 For the latest prices, please check AutomationDirect.com. 22mm Metal Pilot Device Accessories

#### **EMERGENCY STOP Legend Plate**

EMERGENCY STOP Legend Plate				
Part Number	Quantity	Price	Drawing Link	Description
<u>ECX1651</u>	1	\$-6bl:	PDF	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**

	2-Position Short Lever Replacement Operator					
Part Number	Lamp Color	Price	2-Position	Use with		
<u>GR1172PR-5</u>	Red	\$;0df0:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk			
<u>GR1172PV-5</u>	Green	\$;0df1:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with		
<u>GR1172PG-5</u>	Yellow	\$0de?:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	GCX124, GCX125 GCX324, GCX325		
<u>GR1172PB-5</u>	Blue	\$;0de!:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk			
<u>GR1172PN-5</u>	Clear	\$;0de,:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk			

#### **Three-Position Short Lever Operator**

	3-Position Short Lever Replacement Operator				
Part Number	Lamp Color	Price	3-Position	Use with	
<u>GR1288PR-5</u>	Red	\$;0df5:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk		
<u>GR1288PV-5</u>	Green	\$;0dfv:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk		
<u>GR1288PG-5</u>	Yellow	\$;0df3:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128 GCX326, GCX328	
<u>GR1288PB-5</u>	Blue	\$;0df2:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	00,020, 00,020	
<u>GR1288PN-5</u>	Clear	\$;0df4:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk		





# 1-800-633-0405 For the latest prices, please cher

#### **Mushroom Switch Replacement Operator**

Mushroom Switch Replacement Operator						
Part Number	Lamp Color	Price	Description	Use with		
<u>PL1171PR-5</u>	Red	\$;-dfl:	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	\$;dfn:	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	\$;0de[:	22mm illuminated flush pushbutton replacement operator, 5/pk				
<u>GR1168PV-5</u>	Green	\$0de_:	22mm illuminated flush pushbutton replacement operator, 5/pk				
<u>GR1168PG-5</u>	Yellow	\$0dez:	22mm illuminated flush pushbutton replacement operator, 5/pk	Part numbers starting with			
<u>GR1168PB-5</u>	Blue	\$0dey:	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX119, GCX120 GCX319, GCX320			
<u>GR1168PN-5</u>	Clear	\$;0de]:	22mm illuminated flush pushbutton replacement operator, 5/pk				
<u>GR1168PW-5</u>	White	\$0de#:	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	\$;dfs:	22mm illuminated extended pushbutton, replacement operator, 5/pk			
<u>PL1308PV-5</u>	Green	\$;;dft:	22mm illuminated extended pushbutton, replacement operator, 5/pk			
PL1308PG-5	Yellow	\$;dfp:	22mm illuminated extended pushbutton, replacement operator, 5/pk	Part numbers starting with		
PL1308PB-5	Blue	\$;dfo:	22mm illuminated extended pushbutton, replacement operator, 5/pk	GCX121, GCX321		
PL1308PN-5	Clear	\$;dfq:	22mm illuminated extended pushbutton, replacement operator, 5/pk			
<u>PL1308PW-5</u>	White	\$;dfu:	22mm illuminated extended pushbutton, replacement operator, 5/pk			



## **22mm Metal Pilot Device Accessories**

#### **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

Aluminum Legend Plates						
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
AUTO OFF HAND	Black	Black	Silver	ECX1670A-B46	\$;3,1x:	PDF
Blank Plate	Black	-	Silver	<u>ECX1670A-B</u>	\$;3,0x:	<u>PDF</u>
Blank Plate	Red	-	Silver	<u>ECX1670A-R</u>	\$;;3,1,:	PDF
CLAMP	Black	Black	Silver	ECX1670A-B24	\$;3,18:	PDF
CLOSE	Black	Black	Silver	ECX1670A-B01	\$;3,0y:	PDF
DOWN	Black	Black	Silver	ECX1670A-B02	\$;3,0z:	PDF
EMERG. STOP	Red	Red	Silver	ECX1670A-R03	\$;3,20:	PDF
EXTEND	Black	Black	Silver	ECX1670A-B51	\$;3,1_:	PDF
FEEDER OFF	Black	Black	Silver	ECX1670A-B26	\$;3,1a:	PDF
FEEDER ON	Black	Black	Silver	ECX1670A-B25	\$;3,19:	PDF
FOR OFF REV	Black	Black	Silver	ECX1670A-B19	\$;3,13:	PDF
FOR REV	Black	Black	Silver	ECX1670A-B13	\$;;3,0!:	PDF
FORWARD	Black	Black	Silver	ECX1670A-B04	\$;;3,0]:	PDF
GRIP	Black	Black	Silver	ECX1670A-B53	\$;;3,1!:	PDF
HAND-AUTO	Black	Black	Silver	ECX1670A-B14	\$;3,0?:	PDF
HAND OFF AUTO	Black	Black	Silver	ECX1670A-B20	\$;3,14:	PDF
HIGH	Black	Black	Silver	ECX1670A-B27	\$;3,1b:	PDF
HIGH LOW	Black	Black	Silver	ECX1670A-B43	\$;;3,1t:	PDF
IN	Black	Black	Silver	ECX1670A-B28	\$;3,1c:	<u>PDF</u>
INCH	Black	Black	Silver	ECX1670A-B29	\$;3,1d:	<u>PDF</u>
JOG	Black	Black	Silver	ECX1670A-B05	\$;;3,0[:	PDF
JOG FOR	Black	Black	Silver	ECX1670A-B30	\$;3,1e:	PDF
JOG REV	Black	Black	Silver	ECX1670A-B31	\$;;3,1f:	<u>PDF</u>
JOG RUN	Black	Black	Silver	ECX1670A-B15	\$;;3,0,:	PDF
LOW	Black	Black	Silver	ECX1670A-B32	\$;3,1g:	PDF
LOWER	Black	Black	Silver	ECX1670A-B33	\$;3,1h:	PDF
MAN AUTO	Black	Black	Silver	ECX1670A-B44	\$;3,1u:	PDF

Note: Legend plate text is 3mm in height Continued on next page

### **22mm Metal Pilot Device Accessories**





#### Aluminum Legend Plates (continued) Color of Part Drawing Text Legend Background Color Price Field Color Number Link MAN OFF AUTO Black Black Silver ECX1670A-B47 \$;3,1y: PDF MOTOR RUN Black Black Silver ECX1670A-B22 \$;3,16: PDF MOTOR STOP Black Black Silver ECX1670A-B23 \$;3,17: PDF OFF Black Black Silver ECX1670A-B34 \$;-3,1i: PDF OFF ON Black Black ECX1670A-B16 \$;3,10: PDF Silver ON Black Black Silver ECX1670A-B06 \$;3,0q: PDF OPEN Black Black Silver ECX1670A-B07 \$;3,0s: PDF **OPEN OFF CLOSE** ECX1670A-B48 Black Black Silver \$;3,1z: PDF **OPEN CLOSE** Black Silver ECX1670A-B17 \$;3,11: PDF Black Ουτ Black Black Silver ECX1670A-B35 \$:-3,1j: PDF POWER ON ECX1670A-B21 Black Black Silver \$;3,15: PDF PULL ON PUSH OFF Black Black Silver ECX1670A-B50 \$;;3,1[: PDF RAISE Black Black Silver ECX1670A-B36 \$;3,1k: PDF READY Black Black ECX1670A-B37 \$;-3,11: PDF Silver RELEASE Black Black Silver ECX1670A-B54 \$;3,1?: PDF RESET Black Black Silver ECX1670A-B38 \$;3,1n: PDF RETRACT Black ECX1670A-B52 \$;3,1#: PDF Black Silver REVERSE Black ECX1670A-B08 PDF Black Silver \$;;3,0t: RUN Black Black Silver ECX1670A-B09 \$;3,0u: PDF SAFE RUN Black ECX1670A-B45 \$;3,1v: PDF Black Silver START Black Black Silver ECX1670A-B10 \$;3,0v: PDF STOP \$;3,0\_: PDF Black Black Silver ECX1670A-B11 STOP Red Red Silver ECX1670A-R11 \$;3,21: PDF TEST Black Black \$;3,10: PDF Silver ECX1670A-B39 TRANSFER Black ECX1670A-B40 \$;3,1p: Black Silver PDF TRIP PDF Black Black Silver ECX1670A-B41 \$;3,1q: UNCLAMP Black PDF Black Silver ECX1670A-B42 \$;3,1s: UP Black Black Silver ECX1670A-B12 \$;3,0#: PDF **UP OFF DOWN** Black Black Silver ECX1670A-B49 \$;;3,1]: PDF

Note: Legend plate text is 3mm in height

Black

Black

Silver

ECX1670A-B18

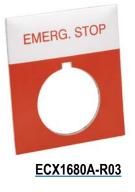
\$;3,12:

PDF

**UP DOWN** 

# **22mm Metal Pilot Device Accessories**





	Jumbo Aluminum Legend Plates					
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
Blank Plate	Black	-	Silver	ECX1680A-B	\$;-3,3j:	PDF
Blank Plate	Red	-	Silver	<u>ECX1680A-R</u>	\$;3,3s:	PDF
EMERG. STOP	Red	Red	Silver	<u>ECX1680A-R03</u>	\$;;3,3t:	PDF
HAND OFF AUTO	Black	Black	Silver	<u>ECX1680A-B20</u>	\$;3,3p:	PDF
JOG	Black	Black	Silver	ECX1680A-B05	\$;3,3k:	PDF
OFF ON	Black	Black	Silver	<u>ECX1680A-B16</u>	\$;3,3n:	<u>PDF</u>
OPEN CLOSE	Black	Black	Silver	ECX1680A-B17	\$;3,30:	<u>PDF</u>
POWER ON	Black	Black	Silver	<u>ECX1680A-B21</u>	\$;3,3q:	<u>PDF</u>
START	Black	Black	Silver	<u>ECX1680A-B10</u>	\$;-3,31:	PDF
STOP	Red	Red	Silver	<u>ECX1680A-R11</u>	\$;3,3u:	<u>PDF</u>

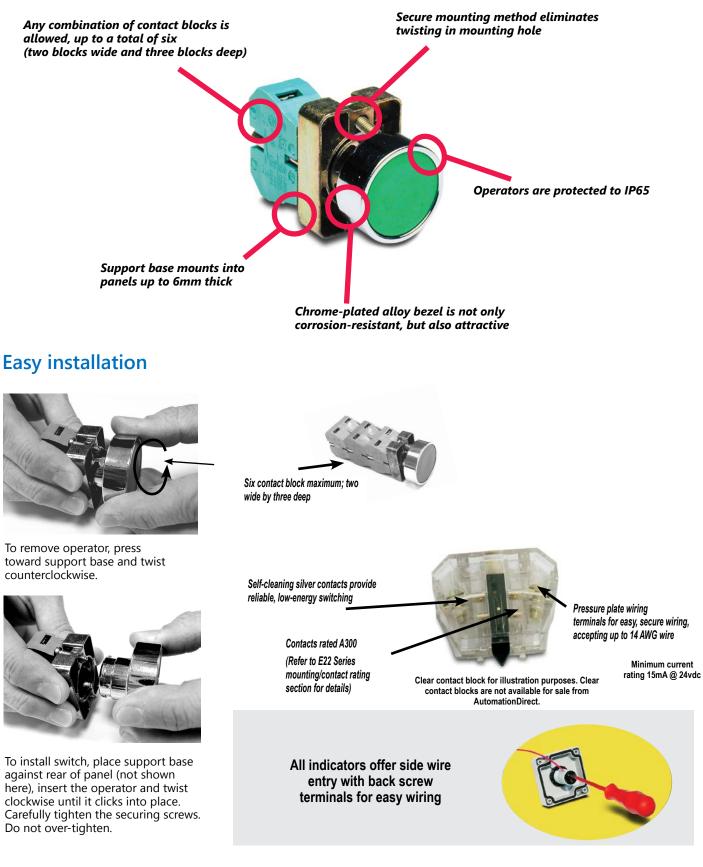
Note: Legend plate text is 3mm in height

### 1-800-633-0405 For the latest price E22 Series Cross-reference Tables

	Pushbutton,	Indicator Light, and Selector S	witch Cross Referen	ce		
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 800E-2LX01 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		
<u>E22TB9X4A</u>	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		

# GCX Series 22mm Metal Pilot Devices

#### **Features**



### 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.

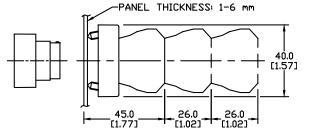
#### Dimensions

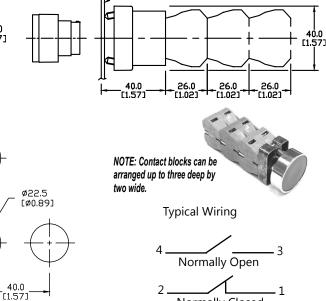
Pushbuttons and selector switches

#### Illuminated pushbuttons and selector switches/ indicator lights

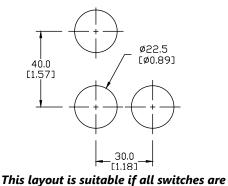
PANEL THICKNESS: 1-6 mm

mm [inches]





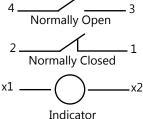
#### Mounting



230V or less and the same polarity.

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

50.0 [1.97]



#### **Specifications**

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

	CEI EN 60947-5-1, CSA C22-2 n.14		
Approvais		Rated Thermal Current (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)
	UL File E189258, IMQ (where specified) Fiberglass reinforced thermoplastic	Rated Insulation Voltage	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508
	Silver	Dielectric Strength	3kV (1 second)
	IP40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP65 for all others. (See Appendix of this	Insulation Resistance	2MΩ min. (500VDC)
	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
Tomporaturo Patings	Storage: -40 -to 80°C (-40 to 176° F)	Connections	Single screw with non-loosening plate clamp,14AWG max.,Tighten to 0.8Nm max
Working	Operating: -25° to +70°C (-13° to 158° F) All working positions are allowed	Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow- action, positive opening
POSILIONS		<b>Operation Frequency</b>	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 DC13 (Control of DC electromagnetic loads)
Positive Opening Operation	(according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation		24 volts DC at 1.5 amps 110 volts DC at 0.5 amps

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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
<b>Operation Frequency</b>	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