### 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

	Mushroom Style Illuminated Pushbuttons						
Part Number	Lamp Color	Color Price Drawing Link		Description	Replacement Bulbs		
Incandescent							
<u>GCX1221-24</u>	Red	\$16.50	PDF	22mm metal incandescent momentary pushbutton with incandescent illuminated 40mm mushroom actuator, 24VDC/VAC, one N.C. contact block	ECX1902-5 5/pk 80mA		
<u>GCX1221-120</u>	Red	\$18.00	PDF	22mm metal incandescent momentary pushbutton with incandescent illuminated 40mm mushroom actuator, 120VDC/VAC, one N.C. contact block	ECX1904-5, 5/pk 20mA		
<u>GCX1226-24</u>	Red	\$18.50	PDF	PDF 22mm metal incandescent pushbutton with incandescent illuminated 40mm mushroom twist-to-release actuator, 24VDC/VAC, one N.C. contact block			
<u>GCX1226-120</u>	Red	\$20.50	PDF	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							
<u>GCX1221-24L</u>	Red	\$21.00	PDF	22 mm metal momentary pushbutton with LED illuminated 40 mm mushroom actuator, 24VDC/VAC, one N.C. contact block	<u>ECX1911-2</u> 2/pk 26mA		
<u>GCX1221-120L</u>	Red	\$22.50	PDF	22 mm metal momentary pushbutton with LED illuminated 40 mm mushroom actuator, 120VDC/VAC, one N.C. contact block	ECX1921-2 2/pk 5mA		
<u>GCX1226-24L</u>	Red	\$23.00	PDF	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		
<u>GCX1226-120L</u>	Red	\$25.00	<u>PDF</u>	22 mm metal pushbutton with LED illuminated 40 mm mushroom twist-to-release actuator, 120VDC/VAC, one N.C. contact block	ECX1921-22 2/pk 5mA		

### Non-Illuminated Mushroom Pushbuttons

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

	Non-Illuminated Mushroom Pushbuttons							
Part Number	Color	Price	Drawing Link	Description				
<u>GCX1131</u>	Red	\$14.50	<u>PDF</u>	Twist-to-release actuator with one N.C. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator.				
<u>GCX1134</u>	Black	\$12.00	<u>PDF</u>	Momentary action with one N.O. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator.				
<u>GCX1135</u>	Red	\$12.00	<u>PDF</u>	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).				
<u>GCX1136</u>	Red	\$17.50	PDF	Twist-to-release actuator with one N.C. contact block, fits in 22mm dia. hole. 60mm mushroom- style actuator.				
<u>GCX1137</u>	Red	\$14.50	PDF	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).				
<u>GCX1139</u>	Yellow	\$12.00	PDF	Momentary action with one N.O. contact block, fits in 22mm dia. hole, has large 40mm dia. mushroom-style actuator.				
<u>GCX1141</u>	Red	\$20.00	<u>PDF</u>	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).				





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. <u>ECX1067-2</u> (pkg. of 2).

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

### GCX Series 22mm Metal Pilot Devices Specifications

### Assembly information

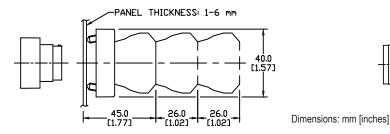
These pushbuttons and indicator lights are supplied with the appropriate contact blocks, unless otherwise indicated. Use these drawings as a guide to make sure there is adequate clearance behind the panel.

#### Pushbuttons and selector switches

Mounting

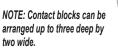
4<u>0</u>.0

[1.57]



### 

This layout is suitable if all switches<br/>are 230V or less and the same polarity.This layout is suitable if all switches are<br/>400V or less and different polarity.



Typical

Wiring

Illuminated pushbuttons and selector switches/pilot lights

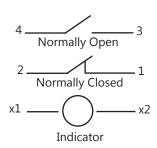
PANEL THICKNESS: 1-6 mm

26.0

26.0

26.0

40.0



40.0 [1.57]

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

30.0

[1.18]

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</u> , <u>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				

Electrica	I 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

### **Replacement Incandescent Bulbs**

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**

	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	24V@26mA 0.6 watts						
ECX1914-2	Blue		\$23.50		LED replacement lamp for miniature bayonet bases Works with 22mm switches and indicators, but					
ECX1915-2	White	2	\$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		Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.					
ECX1923-2	Yellow		\$17.50	120V@5mA	120V@5mA 0.6 watts	Honosook EED Indicators.				
ECX1924-2	Blue		\$23.50	0.0 Walls						
ECX1925-2	White	]	\$28.00							



ECX1902-5



### Hole plug

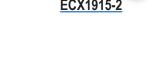
			Hole Plug
Part Number	Color	Price	Description
<u>ECX1490</u>	Black	\$2.75	Plastic hole plug for 22.5 mm openings in panels and enclosures; supplied with O-ring and mounting screw. Two plugs per package.



### Pilot Light Replacement Lens

	Pilot Light Replacement Lens						
Part Number	Lamp Color	Price	Description	Use with			
<u>PL1170PR-5</u>	Red	\$7.00	22mm metallic series pilot light replacement lens, 5/pk				
<u>PL1170PV-5</u>	Green	\$7.00	22mm metallic series pilot light replacement lens, 5/pk				
PL1170PG-5	Yellow	\$7.00	22mm metallic series pilot light replacement lens, 5/pk	Part numbers starting with			
<u>PL1170PB-5</u>	Blue	\$7.00	22mm metallic series pilot light replacement lens, 5/pk	GCX123			
<u>PL1170PN-5</u>	Clear	\$7.00	22mm metallic series pilot light replacement lens, 5/pk				
<u>PL1170PW-5</u>	White	\$7.00	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		\$7.50					
ECX1701-5	Red		\$7.50	Ciliana antestive severe for use with 99mm standard size fluck aughty these				
ECX1702-5	Green		\$7.50	Silicone protective covers for use with 22mm standard-size flush pushbuttons.				
ECX1703-5	Yellow		\$7.50	Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or				
ECX1704-5	Blue	5	\$7.50	extended pushbuttons, or 22mm plastic pushbuttons with 40mm actuator face.				
ECX1705-5	Clear		\$7.50					
<u>ECX1706-5</u>	Clear		\$13.00	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	\$7.00	<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	\$7.25	PDF	Red,	Replacement contact block for 22mm pushbuttons and selector					
<u>ECX1030-5</u>	5	\$17.00	PDF	normally-closed (N.C.)	switches.					
ECX1040-2	2	\$7.25	PDF	Green,	Tightening Torque, terminal screw: 0.8Nm max mounting screw: 0.5Nm max					
<u>ECX1040-5</u>	5	\$17.00	PDF	normally-open (N.O.)	Note: Will not work with Cutler-Hammer 22mm switches.					
<u>ECX1042-2</u>	2	\$7.25	<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)	\$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 metal selector switches are keyed alike.					



ECX1030-2

ECX1067-2

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

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

EMERGENCY STOP Legend Plate				
Part Number Quantity Price Drawing Link Description		Description		
<u>ECX1651</u>	1	\$2.75	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**

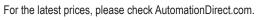
	2-Position Short Lever Replacement Operator					
Part Number	Lamp Color	Price	2-Position	Use with		
<u>GR1172PR-5</u>	Red	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk			
<u>GR1172PV-5</u>	Green	\$16.50	22mm 2-position selector switch illuminated short lever 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	GCX124, GCX125 GCX324, GCX325		
<u>GR1172PB-5</u>	Blue	\$16.50 22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1172PN-5</u>	Clear	\$16.50	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	\$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			
<u>GR1288PG-5</u>	Yellow	\$16.50	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	\$16.50	22mm 3-position selector switch illuminated			
<u>GR1288PN-5</u>	Clear	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk			









STOP ECX1651

<u>109225</u>

# 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	\$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	Lamp Color	Price	Description	Use with		
<u>PL1308PR-5</u>	Red	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk			
<u>PL1308PV-5</u>	Green	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk			
PL1308PG-5	Yellow	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk	Part numbers starting with		
PL1308PB-5	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			



### **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	<u>ECX1670A-B46</u>	\$3.75	PDF
Blank Plate	Black	-	Silver	<u>ECX1670A-B</u>	\$3.75	PDF
Blank Plate	Red	-	Silver	<u>ECX1670A-R</u>	\$3.75	PDF
CLAMP	Black	Black	Silver	ECX1670A-B24	\$3.75	PDF
CLOSE	Black	Black	Silver	ECX1670A-B01	\$3.75	PDF
DOWN	Black	Black	Silver	ECX1670A-B02	\$3.75	PDF
EMERG. STOP	Red	Red	Silver	ECX1670A-R03	\$3.75	PDF
EXTEND	Black	Black	Silver	ECX1670A-B51	\$3.75	PDF
FEEDER OFF	Black	Black	Silver	ECX1670A-B26	\$3.75	PDF
FEEDER ON	Black	Black	Silver	ECX1670A-B25	\$3.75	PDF
FOR OFF REV	Black	Black	Silver	ECX1670A-B19	\$3.75	PDF
FOR REV	Black	Black	Silver	ECX1670A-B13	\$3.75	PDF
FORWARD	Black	Black	Silver	ECX1670A-B04	\$3.75	PDF
GRIP	Black	Black	Silver	ECX1670A-B53	\$3.75	PDF
HAND-AUTO	Black	Black	Silver	ECX1670A-B14	\$3.75	PDF
HAND OFF AUTO	Black	Black	Silver	ECX1670A-B20	\$3.75	PDF
HIGH	Black	Black	Silver	ECX1670A-B27	\$3.75	PDF
HIGH LOW	Black	Black	Silver	ECX1670A-B43	\$3.75	PDF
IN	Black	Black	Silver	ECX1670A-B28	\$3.75	PDF
INCH	Black	Black	Silver	<u>ECX1670A-B29</u>	\$3.75	PDF
JOG	Black	Black	Silver	ECX1670A-B05	\$3.75	PDF
JOG FOR	Black	Black	Silver	ECX1670A-B30	\$3.75	PDF
JOG REV	Black	Black	Silver	ECX1670A-B31	\$3.75	PDF
JOG RUN	Black	Black	Silver	ECX1670A-B15	\$3.75	PDF
LOW	Black	Black	Silver	ECX1670A-B32	\$3.75	PDF
LOWER	Black	Black	Silver	ECX1670A-B33	\$3.75	PDF
MAN AUTO	Black	Black	Silver	ECX1670A-B44	\$3.75	PDF

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





Aluminum Legend Plates (continued)						
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
MAN OFF AUTO	Black	Black	Silver	ECX1670A-B47	\$3.75	PDF
MOTOR RUN	Black	Black	Silver	ECX1670A-B22	\$3.75	PDF
MOTOR STOP	Black	Black	Silver	ECX1670A-B23	\$3.75	PDF
OFF	Black	Black	Silver	<u>ECX1670A-B34</u>	\$3.75	PDF
OFF ON	Black	Black	Silver	<u>ECX1670A-B16</u>	\$3.75	PDF
ON	Black	Black	Silver	<u>ECX1670A-B06</u>	\$3.75	PDF
OPEN	Black	Black	Silver	<u>ECX1670A-B07</u>	\$3.75	PDF
OPEN OFF CLOSE	Black	Black	Silver	<u>ECX1670A-B48</u>	\$3.75	PDF
OPEN CLOSE	Black	Black	Silver	ECX1670A-B17	\$3.75	PDF
Ουτ	Black	Black	Silver	ECX1670A-B35	\$3.75	PDF
POWER ON	Black	Black	Silver	ECX1670A-B21	\$3.75	PDF
PULL ON PUSH OFF	Black	Black	Silver	ECX1670A-B50	\$3.75	PDF
RAISE	Black	Black	Silver	ECX1670A-B36	\$3.75	PDF
READY	Black	Black	Silver	ECX1670A-B37	\$3.75	PDF
RELEASE	Black	Black	Silver	ECX1670A-B54	\$3.75	PDF
RESET	Black	Black	Silver	<u>ECX1670A-B38</u>	\$3.75	PDF
RETRACT	Black	Black	Silver	ECX1670A-B52	\$3.75	PDF
REVERSE	Black	Black	Silver	ECX1670A-B08	\$3.75	PDF
RUN	Black	Black	Silver	ECX1670A-B09	\$3.75	PDF
SAFE RUN	Black	Black	Silver	ECX1670A-B45	\$3.75	PDF
START	Black	Black	Silver	ECX1670A-B10	\$3.75	PDF
STOP	Black	Black	Silver	ECX1670A-B11	\$3.75	PDF
STOP	Red	Red	Silver	ECX1670A-R11	\$3.75	PDF
TEST	Black	Black	Silver	ECX1670A-B39	\$3.75	PDF
TRANSFER	Black	Black	Silver	<u>ECX1670A-B40</u>	\$3.75	PDF
TRIP	Black	Black	Silver	<u>ECX1670A-B41</u>	\$3.75	PDF
UNCLAMP	Black	Black	Silver	ECX1670A-B42	\$3.75	PDF
UP	Black	Black	Silver	<u>ECX1670A-B12</u>	\$3.75	PDF
UP OFF DOWN	Black	Black	Silver	<u>ECX1670A-B49</u>	\$3.75	PDF
UP DOWN	Black	Black	Silver	ECX1670A-B18	\$3.75	PDF

Note: Legend plate text is 3mm in height





	Jumbo Aluminum Legend Plates					
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
Blank Plate	Black	-	Silver	<u>ECX1680A-B</u>	\$4.25	PDF
Blank Plate	Red	-	Silver	<u>ECX1680A-R</u>	\$4.25	PDF
EMERG. STOP	Red	Red	Silver	<u>ECX1680A-R03</u>	\$4.25	<u>PDF</u>
HAND OFF AUTO	Black	Black	Silver	<u>ECX1680A-B20</u>	\$4.25	<u>PDF</u>
JOG	Black	Black	Silver	ECX1680A-B05	\$4.25	PDF
OFF ON	Black	Black	Silver	<u>ECX1680A-B16</u>	\$4.25	<u>PDF</u>
OPEN CLOSE	Black	Black	Silver	ECX1680A-B17	\$4.25	<u>PDF</u>
POWER ON	Black	Black	Silver	<u>ECX1680A-B21</u>	\$4.25	<u>PDF</u>
START	Black	Black	Silver	<u>ECX1680A-B10</u>	\$4.25	PDF
STOP	Red	Red	Silver	<u>ECX1680A-R11</u>	\$4.25	<u>PDF</u>

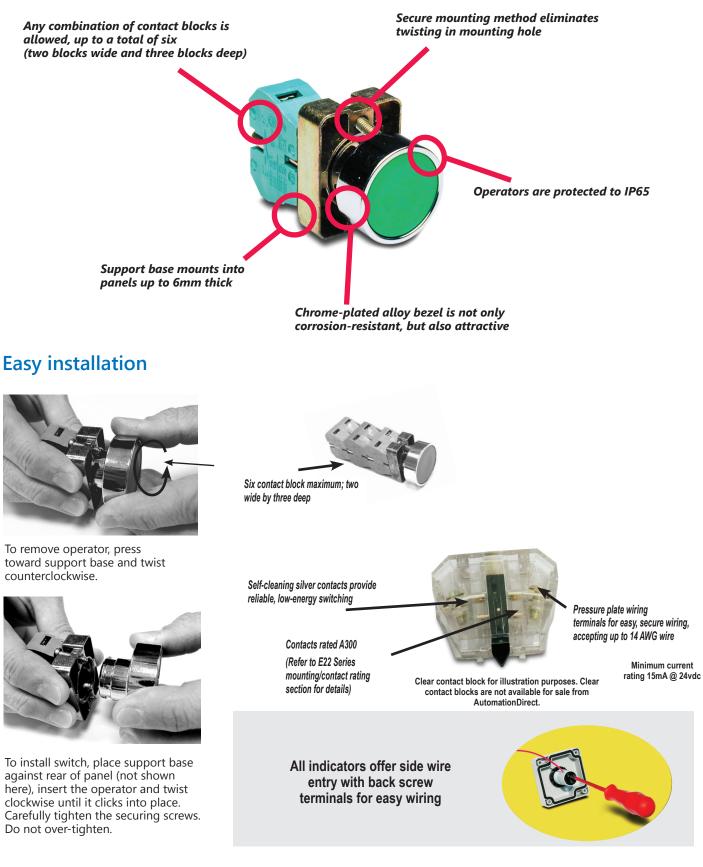
Note: Legend plate text is 3mm in height

### 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
	1	Non-Illuminated Pushbuttons	1	1
<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
<u>E22TB3X4A</u>	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**



www.automationdirect.com

### 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

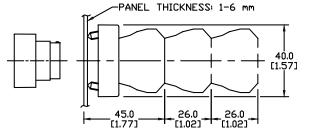
PANEL THICKNESS: 1-6 mm

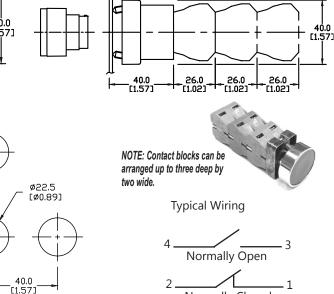
Normally Closed

Indicator

x2

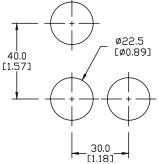
mm [inches]





x1.

### 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.

### **Specifications**

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

Phy	vsical Specifications	Electr	ical Specifications
Standards Reference			A300, Q300 (Refer to E22 Series mounting/co
Approvals	UL File E189258, IMQ (where specified)	Current (contact block)	rating section for details)
Enclosure Material	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 50
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 K
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,1 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.) action, positive opening
Positions	Dath Barrier destant Taken in sticks in the	<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
		*Note: Recommended, not supp	lied

ed Thermal rent (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)		
ed Insulation Voltage	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508		
lectric Strength	3kV (1 second)		
ulation Resistance	2MΩ min. (500VDC)		
ial Contact Resistance	≤ 25mΩ		
ort-Circuit Protection*	Cartridge fuses gl 10 A-500V 10, 3x38l1 100 KA		
minal Markings	According to CENELEC EN 50013		
nnections	Single screw with non-loosening plate clamp,14AWG max.,Tighten to 0.8Nm max		
ntacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow- action, positive opening		