### **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 base Works with 22mm switches and indicators, but		
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		Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.		
ECX1923-2	Yellow	]	\$17.50	120V@5mA 0.6 watts			
ECX1924-2	Blue		\$23.50	0.0 Wallo			
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					





# **22mm Metal Pilot Device Accessories**

# Protective covers for pushbuttons

	Protective Covers for Pushbuttons									
Part Number	Color	Quantity	Price	Description						
<u>ECX1700-5</u>	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 \$7.50	Silicone protective covers for use with 22mm standard-size flush pushbuttons.						
ECX1703-5	Yellow	_		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.						
<u>ECX1705-5</u>	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	PDF	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.	



ECX1030-2

ECX1067-2

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

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#### **EMERGENCY STOP legend plate**

EMERGENCY STOP Legend Plate						
Part Number Quantity Price Drawing Link				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.		



109225

#### **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		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 short lever replacement operator, 5/pk	00,020, 00,020			
<u>GR1288PN-5</u>	Clear	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				





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# 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			
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				
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			
<u>PL1308PN-5</u>	Clear	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk				
PL1308PW-5	White	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk				



# 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]

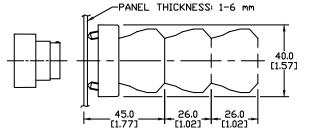
#### Dimensions

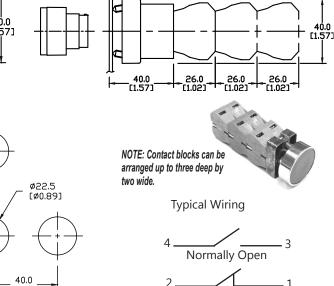
Pushbuttons and selector switches

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

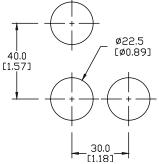
PANEL THICKNESS: 1-6 mm

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.

#### 1 Normally Closed x1. x2 Indicator

# **Specifications**

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

Phy	vsical Specifications	Electrical 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		Dielectric Strength	3kV (1 second)	
Protection Degree	IP40 for <u>GCX3151-24</u> , <u>GCX3151-120</u> , <u>GCX3153-24</u> 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	e ≤ 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	Dushbuttens, selector suitebas, isu stick suitebas;	<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		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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