Replacement Incandescent Bulbs

	Replacement Incandescent Bulbs								
Part Number	Part Number Quantity Price Rating Description								
ECX1900-5	5	\$9.50	6V@ 200mA , 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4					
ECX1902-5	5	\$9.50	24V@ 80mA 2 watts	24V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4					
ECX1904-5	5	\$20.00	130V@20mA 2.6 watts	120V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4					



ECX1902-5

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		\$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	monosion LED indicators.			
ECX1924-2	Blue		\$23.50	0.0 Walls				
ECX1925-2	White		\$28.00	1				



Hole plug

Hole Plug				
Part Number	Color	Price	Description	
ECX1490	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	er Lamp Price Description		Use with						
<u>PL1170PR-5</u>	Red	\$7.00	22mm metallic series pilot light replacement lens, 5/pk						
PL1170PV-5	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					
PL1170PB-5	Blue	\$7.00	22mm metallic series pilot light replacement lens, 5/pk	GCX123					
PL1170PN-5	Clear	\$7.00	22mm metallic series pilot light replacement lens, 5/pk						
PL1170PW-5	White	\$7.00	22mm metallic series pilot light replacement lens, 5/pk						



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Protective Covers for Pushbuttons

	Protective Covers for Pushbuttons								
Part Number	Color	Quantity	Price	Description					
ECX1700-5	Black		\$7.50						
ECX1701-5	Red		\$7.50	Silicone protective covers for use with 22mm standard-size flush pushbuttons.					
ECX1702-5	Green		\$7.50	Silicone protective covers for use with zzmin standard-size mush pushbuttoris.					
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						
ECX1706-5	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				
ECX1029-2	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						
ECX1030-2	2	\$7.25	PDF	Red,	Replacement contact block for 22mm pushbuttons and selector						
ECX1030-5	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						
ECX1040-5	5	\$17.00	<u>PDF</u>	normally-open (N.O.)	Note: Will not work with Cutler-Hammer 22mm switches.						
ECX1042-2	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.						



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)	\$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.		



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	
ECX1651	1	\$2.75	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	\$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					
GR1172PB-5	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				
GR1288PR-5	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				
GR1288PB-5	Blue	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	00/020, 00/020				
GR1288PN-5	Clear	\$16.50	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						
<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	
GR1168PR-5	Red	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk		
GR1168PV-5	Green	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk		
GR1168PG-5	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	
PL1308PN-5	Clear	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk		
PL1308PW-5	White	\$7.00	22mm illuminated extended pushbutton, replacement operator, 5/pk		

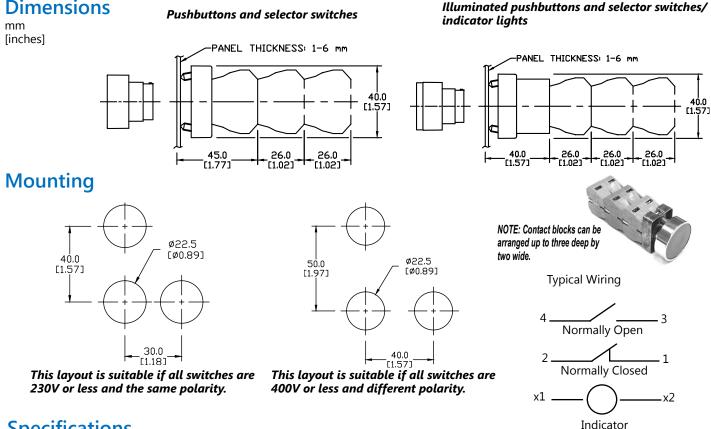


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GCX Series 22mm Plastic Pilot Devices Specifications

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.

Physical 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		

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 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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