GCX Series 22mm Plastic Key Switches and Selector Switches

Key-Operated Selector Switches



	Key-Operated Selector Switches						
Part Number	Price	Drawing Link	Description				
GCX3420	\$15.50	PDF	AutomationDirect selector switch, 22mm, 2-position, maintained, key removable in all positions, (1) N.O. contact(s), plastic base, plastic bezel, Operator: black, key, 30mm, round, plastic.				
GCX3430	\$15.50	<u>PDF</u>	AutomationDirect selector switch, IP65, 22mm, 2-position, spring return from right, key removable left position, (1) N.O. contact(s), plastic base, plastic bezel, Operator: black, key, 30mm, round, plastic.				
GCX3470-22	\$22.50	PDF	AutomationDirect selector switch, 22mm, 3-position, maintained, key removable in all positions, (2) N.O./(2) N.C. contact(s), plastic base, plastic bezel, Operator: black, key, 30mm, round, plastic.				



Note: Keyed switches come with two keys. All plastic 22mm keyed switches are keyed the same. Replacement keys are available. Order part no. <u>ECX1067-2</u> (pkg. of 2). Keys for plastic 22mm keyed switches are not compatible with Cutler-Hammer key switches.



Note: When using switches having two-deep contact blocks (such as, Model <u>GCX3470-22</u>) with the 22mm plastic enclosures, be sure to use enclosures that are 74mm deep. 51 mm-deep enclosures are too shallow and the switch body will not fit.

Two-Position Selector Switches



GCX3300 Knob version

	Two-Position Selector Switches							
Part Number Price Drawing Link			Description					
GCX3300	\$8.25	PDF	AutomationDirect selector switch, 22mm, 2-position, maintained, (1) N.O. contact(s), plastic base, plastic bezel, Operator: black, knob, 30mm, round, plastic.					
GCX3310	\$9.00	PDF	AutomationDirect selector switch, 22mm, 2-position, spring return from right, (1) N.O. contact(s), plastic base, plastic bezel, Operator: black, knob, 30mm, round, plastic.					
GCX3350	\$9.00	PDF	AutomationDirect selector switch, 22mm, 2-position, maintained, (1) N.O. contact(s), plastic base, plastic bezel, Operator: black, lever, 30mm, round, plastic.					
GCX3360	\$9.50	PDF	AutomationDirect selector switch, 22mm, 2-position, spring return from right, (1) N.O. contact(s), plastic base, plastic bezel, Operator: black, lever, 30mm, round, plastic.					



GCX3350 Lever version

Contact Closure Sequence - 2-Position Switch								
Contact		Arrangement from front)	Switch Position (viewed from front)					
Blocks	Left	Right	Left (Note 1)	Right (Note 2)				
1 x N.C.	N.C.		Х					
I X N.C.		N.C.	Х					
1 x N.O.	N.O.			Х				
I X N.O.		N.O.		Х				
2 x N.C.	N.C.	N.C.	XX					
2 x N.O.	N.O.	N.O.		XX				

Note 1: Left switch position deactivates all contacts. Note 2: Right switch position activates all contacts.

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

GCX Series 22mm Plastic Selector Switches

Three-Position Selector Switches







GCX3370-22 Lever version

	Three-Position Selector Switches							
Part Number	Price Drawing Link Description							
GCX3320-22	\$16.00	<u>PDF</u>	AutomationDirect selector switch, 22mm, 3-position, maintained, (2) N.O./(2) N.C. contact(s), plastic base, plastic bezel, Operator: black, knob, 30mm, round, plastic.					
GCX3330-22	\$16.50	PDF	AutomationDirect selector switch, 22mm, 3-position, spring return to center, (2) N.O./(2) N.C. contact(s), plastic base, plastic bezel, Operator: black, knob, 30mm, round, plastic.					
GCX3370-22	\$16.50	PDF	AutomationDirect selector switch, 22mm, 3-position, maintained, (2) N.O./(2) N.C. contact(s), plastic base, plastic bezel, Operator: black, lever, 30mm, round, plastic.					
GCX3380-22	\$17.00	<u>PDF</u>	AutomationDirect selector switch, 22mm, 3-position, spring return to center, (2) N.O./(2) N.C. contact(s), plastic base, plastic bezel, Operator: black, lever, 30mm, round, plastic.					



Note: When using switches having two-deep contact blocks with the 22mm plastic enclosures, be sure to use enclosures that are 74 mm deep; 51 mm-deep enclosures are too shallow and the switch body will not fit

Contact Closure Sequence for Three-Position Switches

	Contact Closure Sequence - 3-Position Switches								
Contact		Arrangement I from front)	Switch Position (viewed from front)						
Blocks	Left	Right	Left (Note 1)	Center (Note 2)	Right (Note 3)				
1 x N.C.	N.C.			х —	— х				
I X N.C.		N.C.	х —	— х					
1 x N.O.	N.O.		X						
I X N.O.		N.O.			Х				
2 x N.C.	N.C.	N.C.	Х	х —	— х				
2 x N.O.	N.O.	N.O.	Х		Х				

Note 1: Left switch position activates left side contacts (viewed from front).

Note 2: Center switch position deactivates all contacts.

Note 2: Right switch position activates right side contacts (viewed from front).

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

Replacement Incandescent Bulbs



ECX1902-5

Replacement LED Lamps



ECX1915-2

Hole Plug



ECX1490

Protective Covers for Pushbuttons



ECX1703-5

Knockout Punches



Replacement Keys



ECX1067-2

	Replacement Incandescent Bulbs								
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					

Note: Bulb removal tool available. Order part number HT8LAMPTOOL.

	Replacement LED Lamps									
Part Number	Color	Quantity	Price	Rating	Description					
ECX1911-2	Red		\$17.50							
ECX1912-2	Green		\$22.00	0.00000						
ECX1913-2	Yellow		\$17.50	24V@26mA 0.6 watts						
ECX1914-2	Blue		\$23.50		LED replacement lamp for miniature bayonet bas 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		\$17.50		ECX 22mm indicators					
ECX1922-2	Green		\$22.00	4001/05 4	Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.					
ECX1923-2	Yellow		\$17.50	120V@5mA 0.6 watts	monoblock LLD indicators.					
ECX1924-2	Blue		\$23.50	0.0 Walls						
ECX1925-2	White		\$28.00							

Note: LED modules have very low current draw and should not be used with triac output devices like PLC triac output modules. It is recommended that dry contact outputs be used to switch 120 volt AC LED modules.

	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.			

	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						
ECX1702-5	Green	5	\$7.50	pushbuttons.						
ECX1703-5	Yellow		\$7.50	Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or extended pushbuttons, or 22mm plastic pushbuttons						
ECX1704-5	Blue		\$7.50	with 40mm actuator face.						
ECX1705-5	Clear		\$7.50							
ECX1706-5	Clear		\$13.00	Clear silicone protective covers for use with 22mm illuminated and extended pushbuttons only. Will not work with Cutler-Hammer pushbuttons or 22mm mushroom pushbuttons.						

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. See the Tools section of the catalog for details.

Note: Part number 109225 is recommended when punching holes for 22mm pilot devices.

Replacement Keys						
Part Number	Quantity	Price	Description			
ECX1067-2	2	\$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 plastic selector switches are keyed alike.

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Replacement 22mm Support Base

Replacement 22mm Support Base							
Part Number	Quantity	Price	Drawing Link	Description			
ECX3029-2	1	\$1.75	PDF	22mm plastic 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			



ECX3029-2

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						
ECX1030-5	5	\$17.00	PDF	normally-closed (N.C.)	selector switches. Tightening Torque, terminal screw: 0.8 N⋅m max						
ECX1040-2	2	\$7.25	PDF	Green,	mounting screw: 0.5 N·m max Note: Will not work with Cutler-Hammer 22mm switches						
ECX1040-5	5	\$17.00	PDF	normally-open (N.O.)	sold by AutomationDirect						
ECX1042-2	2	\$7.25	<u>PDF</u>	Brown, normally-open (N.O.), push-push	Use on lighted Push-push button only						



ECX1030-2

Note: See electrical specifications on GCX Series 22mm Plastic Pilot Devices

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.		



Two-Position Short Lever Pperator

Short Lever Replacement Operator								
Part Number	mber Lamp Color Price 2-Position							
<u>GR1172PR-5</u>	Red	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk					
GR1172PV-5	Green	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with				
GR1172PG-5	Yellow	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	GCX124, GCX125				
GR1172PB-5	Blue	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	GCX324, GCX325				
GR1172PN-5	Clear	\$16.50	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk					



GR1172PR-5

Three-Position Short Lever Operator

Short Lever Replacement Operator								
Part Number	Lamp Color			Use with				
<u>GR1288PR-5</u>	Red	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk					
GR1288PV-5	Green	\$16.50						
GR1288PG-5	Yellow	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128				
GR1288PB-5	Blue	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	GCX326, GVX328				
GR1288PN-5	Clear	\$16.50	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk					



GR1288PR-5

Mushroom Switch Replacement Operator

	Mushroom Switch Replacement Operator								
Part Number	Lamp Color	Price	Use with						
PL1171PR-5	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 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					
GR1168PB-5	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					



Legend Plates

Plastic legend plates for use with 22mm pilot devices. White engraved text on colored background. O-ring included.





P	lastic	Legend Plate	S	
Legend	Color of Field	Part Number	Price	Drawing Link
AUTO OFF HAND	Black	ECX1670-B46	\$3.75	PDF
Blank Plate	Black	ECX1670-B	\$3.00	PDF
Blank Plate	Red	ECX1670-R	\$3.00	PDF
CLAMP	Black	ECX1670-B24	\$3.75	PDF
CLOSE	Black	ECX1670-B01	\$3.00	PDF
DOWN	Black	ECX1670-B02	\$3.00	PDF
EMERG. STOP	Red	ECX1670-R03	\$3.00	PDF
EXTEND	Black	ECX1670-B51	\$3.75	PDF
FEEDER OFF	Black	ECX1670-B26	\$3.75	PDF
FEEDER ON	Black	ECX1670-B25	\$3.75	PDF
FOR OFF REV	Black	ECX1670-B19	\$3.00	PDF
FOR-REV	Black	ECX1670-B13	\$3.00	PDF
FORWARD	Black	ECX1670-B04	\$3.00	PDF
GRIP	Black	ECX1670-B53	\$3.75	PDF
HAND-AUTO	Black	ECX1670-B14	\$3.00	PDF
HAND OFF AUTO	Black	ECX1670-B20	\$3.00	PDF
HIGH	Black	ECX1670-B27	\$3.75	PDF
HIGH LOW	Black	ECX1670-B43	\$3.75	PDF
IN	Black	ECX1670-B28	\$3.75	<u>PDF</u>
INCH	Black	ECX1670-B29	\$3.75	PDF
JOG	Black	ECX1670-B05	\$3.00	PDF
JOG FOR	Black	ECX1670-B30	\$3.75	PDF
JOG REV	Black	ECX1670-B31	\$3.75	PDF
JOG-RUN	Black	ECX1670-B15	\$3.00	PDF
LOW	Black	ECX1670-B32	\$3.75	PDF
LOWER	Black	ECX1670-B33	\$3.75	PDF

No	te:	Legend	pla	te	text	İS	3mm	in	height	
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Plastic Legend Plates						
Legend	Color of Field	Part Number	Price	Drawing Link		
MAN AUTO	Black	ECX1670-B44	\$3.75	PDF		
MAN OFF AUTO	Black	ECX1670-B47	\$3.75	PDF		
MOTOR RUN	Black	ECX1670-B22	\$3.00	PDF		
MOTOR STOP	Black	ECX1670-B23	\$3.00	PDF		
OFF	Black	ECX1670-B34	\$3.75	PDF		
OFF-ON	Black	ECX1670-B16	\$3.00	PDF		
ON	Black	ECX1670-B06	\$3.00	PDF		
OPEN	Black	ECX1670-B07	\$3.00	PDF		
OPEN OFF CLOSE	Black	ECX1670-B48	\$3.75	PDF		
OPEN-CLOSE	Black	ECX1670-B17	\$3.00	PDF		
OUT	Black	ECX1670-B35	\$3.75	PDF		
POWER ON	Black	ECX1670-B21	\$3.00	PDF		
PULL ON PUSH OFF	Black	ECX1670-B50	\$3.75	PDF		
RAISE	Black	ECX1670-B36	\$3.75	<u>PDF</u>		
READY	Black	ECX1670-B37	\$3.75	PDF		
RELEASE	Black	ECX1670-B54	\$3.75	PDF		
RESET	Black	ECX1670-B38	\$3.75	PDF		
RETRACT	Black	ECX1670-B52	\$3.75	PDF		
REVERSE	Black	ECX1670-B08	\$3.00	PDF		
RUN	Black	ECX1670-B09	\$3.00	PDF		
SAFE RUN	Black	ECX1670-B45	\$3.75	PDF		
START	Black	ECX1670-B10	\$3.00	PDF		
STOP	Black	ECX1670-B11	\$3.00	PDF		
STOP	Red	ECX1670-R11	\$3.00	PDF		
TEST	Black	ECX1670-B39	\$3.75	PDF		
TRANSFER	Black	ECX1670-B40	\$3.75	PDF		
TRIP	Black	ECX1670-B41	\$3.75	PDF		
UNCLAMP	Black	ECX1670-B42	\$3.75	PDF		
UP	Black	ECX1670-B12	\$3.00	PDF		
UP OFF DOWN	Black	ECX1670-B49	\$3.75	PDF		
UP-DOWN	Black	ECX1670-B18	\$3.00	PDF		

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ECX1690-B16

ECX1690-R11

Jumbo Plastic Legend Plates						
Legend	Color of Field	Part Number	Price	Drawing Link		
Blank Plate	Black	ECX1690-B	\$3.75	<u>PDF</u>		
Blank Plate	Red	ECX1690-R	\$3.75	<u>PDF</u>		
EMERG. STOP	Red	ECX1690-R03	\$3.75	<u>PDF</u>		
HAND-OFF-AUTO	Black	ECX1690-B20	\$3.75	PDF		
JOG	Black	ECX1690-B05	\$3.75	<u>PDF</u>		
OFF-ON	Black	ECX1690-B16	\$3.75	<u>PDF</u>		
OPEN-CLOSE	Black	ECX1690-B17	\$3.75	<u>PDF</u>		
POWER ON	Black	ECX1690-B21	\$3.75	PDF		
START	Black	ECX1690-B10	\$3.75	<u>PDF</u>		
STOP	Red	ECX1690-R11	\$3.75	<u>PDF</u>		

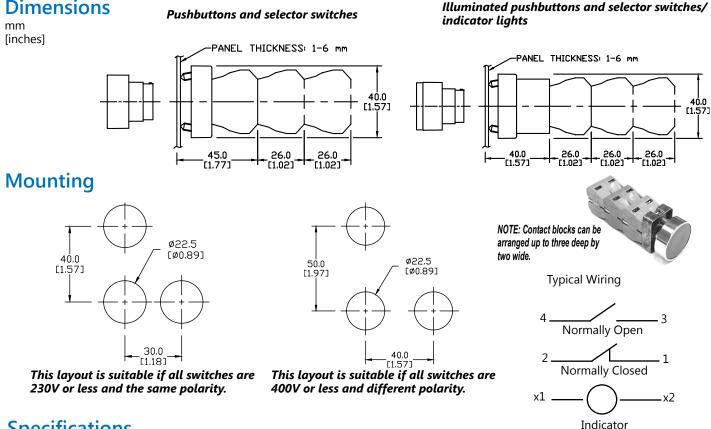
Note: Legend plate text is 3mm in height

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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.

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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