ECX Series 22mm Metal Joystick Selector Switches

Joystick Selector Switches

• Four models available

	Joystick Selector Switches							
Part Number	Price	Drawing Link	Description					
ECX1510	\$29.50	PDF	22mm metal joystick-style selector switch, two-position momentary, two N.O. contact blocks					
ECX1512	\$29.50	PDF	22mm metal joystick-style selector switch, two-position maintained, two N.O. contact blocks					
ECX1520	\$39.00	PDF	22mm metal joystick-style selector switch, four-position momentary, four N.O. contact blocks					
ECX1524	\$39.00	PDF	22mm metal joystick-style selector switch, four-position maintained, four N.O. contact blocks					



Note: Four-position switches use two special contact blocks which are not replaceable.

Note: When using switches having two-deep contact blocks (4-position joysticks) with the 22mm plastic enclosures, use enclosures that are 74mm deep; 51mm-deep enclosures are too shallow.



ECX1510 (Two-position momentary) ECX1512 (Two-position maintained)

- Moving the joystick UP will close contact on one side.
- Moving the joystick DOWN will close contact on other side.



ECX1520 (Four-position momentary) ECX1524 (Four-position maintained)

- Moving the joystick UP will close Green contact on one side and moving it DOWN will close Gray contact located behind it.
- Moving the joystick RIGHT will close Green contact on other side and moving it LEFT will close Gray contact located behind it.

Important Installation Note

It is very important that the joystick be assembled correctly to ensure proper operation.



Insert operator into support base (panel is not shown).



Twist clockwise until it clicks into place. Carefully tighten the securing screws. Do not over-tighten. (4.5 lb·in) If the operator is not "clicked" into position before the screws are tightened, the switch will not work properly.

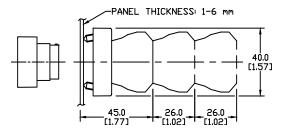
GCX Series 22mm Metal Pilot Devices Specifications

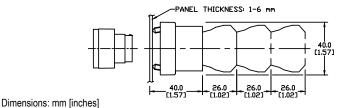
Assembly information

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.

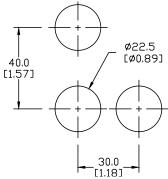
Pushbuttons and selector switches

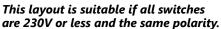
Illuminated pushbuttons and selector switches/pilot lights

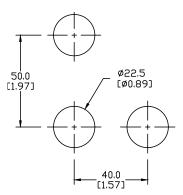




Mounting

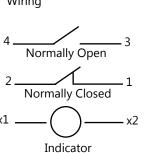






This layout is suitable if all switches are 400V or less and different polarity.

NOTE: Contact blocks can be arranged up to three deep by two wide. Typical Wiring



Specifications

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

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 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.)			
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	l 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
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

Replacement Incandescent Bulbs

	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							



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	LED replacement lamp for miniature bayonet bases Works with 22mm switches and indicators, but illumination will not be as even when used with the ECX 22mm indicators Note: Will not replace sealed Cutler-Hammer monoblock LED indicators.						
ECX1914-2	Blue		\$23.50								
ECX1915-2	White	2	\$28.00								
ECX1921-2	Red		\$17.50								
ECX1922-2	Green		\$22.00] 							
ECX1923-2	Yellow		\$17.50	120V@5mA 0.6 watts	monosiosk EED indicators.						
ECX1924-2	Blue		\$23.50	0.0 Walls							
ECX1925-2	White		\$28.00								



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	Lamp Color Price		Description	Use with				
PL1170PR-5	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	Ciliana protectiva covers for use with 20mm standard size flush pushbuttana						
ECX1702-5	Green		\$7.50	Silicone protective covers for use with 22mm standard-size flush pushbuttons. Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or extended pushbuttons, or 22mm plastic pushbuttons with 40mm actuator face.						
ECX1703-5	Yellow	_	\$7.50							
ECX1704-5	Blue	5	\$7.50							
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.

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.					



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		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			
GR1172PG-5	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	art 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				
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				
PL1298P-5	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	t Number Lamp Color Price Description		Use with				
<u>GR1168PR-5</u>	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			
GR1168PB-5	Blue	\$9.00	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX119, GCX120 GCX319, GCX320			
GR1168PN-5	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		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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Legend Plates

Aluminum legend plates for use with 22mm pilot devices. Black or red field with silver background. O-ring included.







ECX1670A-R03

		Alumin	um Legend Pl	ates		
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
AUTO OFF HAND	Black	Black	Silver	ECX1670A-B46	\$3.75	PDF
Blank Plate	Black	-	Silver	ECX1670A-B	\$3.75	PDF
Blank Plate	Red	-	Silver	ECX1670A-R	\$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	<u>PDF</u>
INCH	Black	Black	Silver	ECX1670A-B29	\$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

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ECX1670A-B48

ECX1670A-R11

	Alumin	um Leg	jend Plates (c	ontinued)		
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	ECX1670A-B34	\$3.75	PDF
OFF ON	Black	Black	Silver	ECX1670A-B16	\$3.75	PDF
ON	Black	Black	Silver	ECX1670A-B06	\$3.75	PDF
OPEN	Black	Black	Silver	ECX1670A-B07	\$3.75	PDF
OPEN OFF CLOSE	Black	Black	Silver	ECX1670A-B48	\$3.75	PDF
OPEN CLOSE	Black	Black	Silver	ECX1670A-B17	\$3.75	PDF
ОИТ	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	ECX1670A-B38	\$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	ECX1670A-B40	\$3.75	PDF
TRIP	Black	Black	Silver	ECX1670A-B41	\$3.75	<u>PDF</u>
UNCLAMP	Black	Black	Silver	ECX1670A-B42	\$3.75	PDF
UP	Black	Black	Silver	ECX1670A-B12	\$3.75	PDF
UP OFF DOWN	Black	Black	Silver	ECX1670A-B49	\$3.75	PDF
UP DOWN	Black	Black	Silver	ECX1670A-B18	\$3.75	PDF

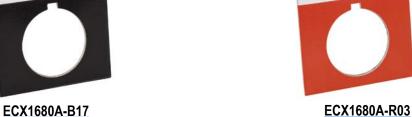
Note: Legend plate text is 3mm in height

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EMERG. STOP

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	1	Silver	ECX1680A-B	\$4.25	PDF
Blank Plate	Red	1	Silver	ECX1680A-R	\$4.25	PDF
EMERG. STOP	Red	Red	Silver	ECX1680A-R03	\$4.25	PDF
HAND OFF AUTO	Black	Black	Silver	ECX1680A-B20	\$4.25	PDF
JOG	Black	Black	Silver	ECX1680A-B05	\$4.25	PDF
OFF ON	Black	Black	Silver	ECX1680A-B16	\$4.25	PDF
OPEN CLOSE	Black	Black	Silver	ECX1680A-B17	\$4.25	PDF
POWER ON	Black	Black	Silver	ECX1680A-B21	\$4.25	PDF
START	Black	Black	Silver	ECX1680A-B10	\$4.25	PDF
STOP	Red	Red	Silver	ECX1680A-R11	\$4.25	<u>PDF</u>

Note: Legend plate text is 3mm in height

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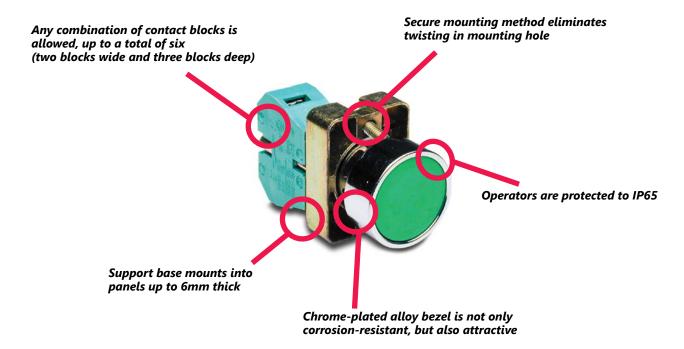
E22 Series Cross-reference Tables

	Pushbutton, Indicator Light, and Selector Switch Cross Reference							
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 800EP-E4 800E-2LX01 800E-34BE208 800E-34R212	XALB211 Both flush - stop is not extended	P9CPNRSN20NO P9CPNVGN10NO P9EPB02 P9AEPN201 P9AEPN202	3SB02-S21				
		Illuminated Pushbuttons						
E22TB2X4B	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				
E22TB9X4A	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				

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GCX Series 22mm Metal Pilot Devices

Features



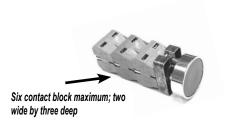
Easy installation

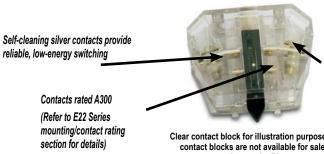


To remove operator, press toward support base and twist counterclockwise.



To install switch, place support base against rear of panel (not shown here), insert the operator and twist clockwise until it clicks into place. Carefully tighten the securing screws. Do not over-tighten.



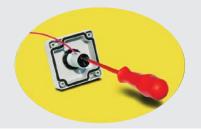


Clear contact block for illustration purposes. Clear contact blocks are not available for sale from AutomationDirect.

Pressure plate wiring terminals for easy, secure wiring, accepting up to 14 AWG wire

> Minimum current rating 15mA @ 24vdc

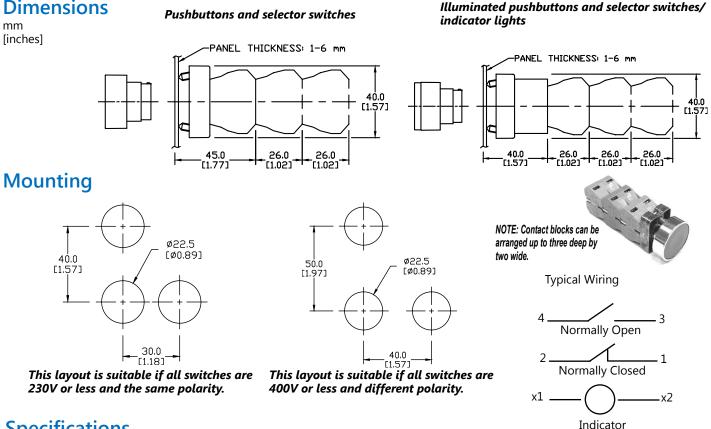
All indicators offer side wire entry with back screw terminals for easy wiring



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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