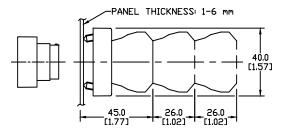
## GCX Series 22mm Metal Pilot Devices Specifications

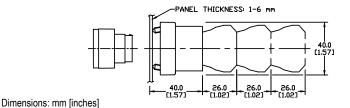
#### **Assembly information**

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.

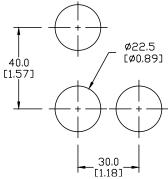
#### **Pushbuttons and selector switches**

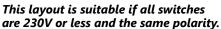
#### Illuminated pushbuttons and selector switches/pilot lights

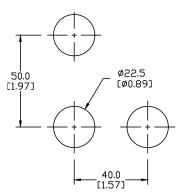




#### Mounting

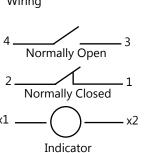






This layout is suitable if all switches are 400V or less and different polarity.

# 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

### **GCX Series 22mm Metal Pushbuttons**

Momentary Flush Pushbuttons with protective metal ring (30mm dia. actuator)



GCX1102

Momentary Flush ON/OFF Pushbuttons with protective metal ring (30mm dia. actuator)





GCX1106

GCX1107

Momentary Pushbuttons Flush with Protective Metal Ring								
Part Number	Color	Price	Drawing Link	Description				
GCX1100	Black	\$8.25	<u>PDF</u>	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole				
<u>GCX1101</u>	Red	\$8.25	PDF	One N.C. contact block, 30mm dia. actuator, mounts in 22mm hole				
GCX1102	Green	\$8.25	PDF					
GCX1103	Yellow	\$8.25	PDF	One N.O. contact block, 30mm dia. actuator, mounts				
GCX1104	Blue	\$8.25	PDF	in 22mm hole				
GCX1105	White	\$8.25	PDF					

Momentary Pushbuttons Flush ON/OFF							
Part Number	Color	Price	Drawing Link	Description			
GCX1106	Red with "Off" symbol (O) on actuator	\$9.00	PDF	One N.C. contact block, 30mm dia. actuator, mounts in 22mm hole			
GCX1107	Green with "On" symbol (I) on actuator	\$9.00	PDF	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole			

Momentary Pushbuttons with protective metal ring (40mm dia. actuator)



GCX1121

M	Momentary Pushbuttons with Protective Metal Ring								
Part Number	Color	Price	Drawing Link	Description					
GCX1120	Black	\$9.75	PDF	One N.O. contact block, 40mm dia. actuator, mounts in 22mm hole					
GCX1121	Red	\$9.75	PDF	One N.C. contact block, 40mm dia. actuator, mounts in 22mm hole					
GCX1122	Green	\$9.75	PDF						
GCX1123	Yellow	\$9.75	PDF	One N.O. contact block, 40mm dia. actuator,					
GCX1124	Blue	\$9.75	PDF	mounts in 22mm hole					
GCX1125	White	\$9.75	PDF						

Note: Protective silicone covers are not available for this pushbutton.

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

## **GCX Series 22mm Metal Pushbuttons**

#### **Momentary Extended Pushbuttons**

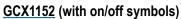


GCX1113

	Momentary Extended Pushbuttons										
Part Number	Color	Price	Drawing Link	IIACCLINIUM							
GCX1110	Black	\$9.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.O. contact(s), metal base, metal bezel, Operator: black, extended, 30mm, round, plastic.							
GCX1111	Red	\$9.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.C. contact(s), metal base, metal bezel, Operator: red, extended, 30mm, round, plastic.							
GCX1112	Green	\$9.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.O. contact(s), metal base, metal bezel, Operator: green, extended, 30mm, round, plastic.							
GCX1113	Yellow	\$9.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.O. contact(s), metal base, metal bezel, Operator: yellow, extended, 30mm, round, plastic.							
GCX1114	Blue	\$9.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.O. contact(s), metal base, metal bezel, Operator: blue, extended, 30mm, round, plastic.							
GCX1115	White	\$9.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.O. contact(s), metal base, metal bezel, Operator: white, extended, 30mm, round, plastic.							

#### **Double-Headed Momentary Pushbuttons**







GCX1151-24

Double-Headed Momentary Pushbuttons							
Part Number	Price	Price Drawing Description					
GCX1150	\$16.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.O./(1) N.C. contact(s), metal base, metal bezel, Operator: red/green, double headed, 50mm, rectangular, plastic.				
GCX1151-24	\$23.50	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, incandescent illuminated, (1) N.O./(1) N.C. contact(s), metal base, metal bezel, Operator: red/green, double headed, 60mm, rectangular, plastic, 24 VAC/VDC, full voltage.				
GCX1151-120	\$25.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, incandescent illuminated, (1) N.O./(1) N.C. contact(s), metal base, metal bezel, Operator: red/green, double headed, 60mm, rectangular, plastic, 120 VAC/VDC, full voltage.				
GCX1152	\$17.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, (1) N.O./(1) N.C. contact(s), metal base, metal bezel, Operator: red/green, double headed, 50mm, rectangular, plastic, operator text "(I) and (0)".				
GCX1153-24*	\$25.00	<u>PDF</u>	AutomationDirect pushbutton, IP65, 22mm, momentary, incandescent illuminated, (1) N.O./(1) N.C. contact(s), metal base, metal bezel, Operator: red/green, double headed, 50mm, rectangular, plastic, operator text "(I) and (0)", 24 VAC/VDC, full voltage.				
GCX1153-120*	\$26.00	PDF	AutomationDirect pushbutton, IP65, 22mm, momentary, incandescent illuminated, (1) N.O./(1) N.C. contact(s), metal base, metal bezel, Operator: red/green, double headed, 50mm, rectangular, plastic, operator text "(I) and (0)", 120 VAC/VDC, full voltage.				

 $<sup>^{\</sup>star}$  Note: Lamp data in 22 mm Metal Pilot Accessories in this section.

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

## **GCX Series 22mm Metal Pushbuttons** without Contact Block

Momentary Flush Pushbutton Operator (without contact block) (30mm dia. actuator)

Momentary Flush Pushbuttons Operators (without contact block)							
Part Number	Color	Price	Drawing Link	Description			
GCX1100-SC	Black	\$5.50	PDF	22mm metal pushbutton operator, flush, includes 30mm dia. operator and support base ONLY. Contact blocks sold separately, mounts in 22mm hole.			
GCX1101-SC	Red	\$5.50	PDF	22mm metal pushbutton operator, flush, includes 30mm dia. operator and support base ONLY. Contact blocks sold separately, mounts in 22mm hole.			
GCX1102-SC	Green	\$5.50	PDF	22mm metal pushbutton operator, flush, includes 30mm dia. operator and support base ONLY. Contact blocks sold separately, mounts in 22mm hole.			



Momentary Extended Pushbutton Operator (without contact block) (30mm dia. actuator)

Momenta	Momentary Extended Pushbutton Operators (without contact block)						
Part Number	Color	Price	Drawing Link	Description			
GCX1110-SC	Black	\$5.50	PDF	22mm metal pushbutton operator, extended, includes 30mm dia. operator and support base ONLY. Contact block sold separately, mounts in 22mm hole			
<u>GCX1111-SC</u>	Red	\$5.50	PDF	22mm metal pushbutton operator, extended, includes 30mm dia. operator and support base ONLY. Contact block sold separately, mounts in 22mm hole			
GCX1112-SC	Green	\$5.50	PDF	22mm metal pushbutton operator, extended, includes 30mm dia. operator and support base ONLY. Contact block sold separately, mounts in 22mm hole			



Contact blocks are available for these products.



ECX1042-2 ECX1030-2

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

#### **Replacement Incandescent Bulbs**

	Replacement Incandescent Bulbs							
Part Number	Quantity	Price	Rating	Description				
ECX1900-5	5	\$10.50	6V@ 200mA , 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4				
ECX1902-5	5	\$10.50	24V@ 80mA 2 watts	24V replacement bulb for 22mm switches and indicators.  Miniature bayonet base T31/4				
ECX1904-5	5	\$22.00	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		\$19.00				
ECX1912-2	Green		\$24.00				
ECX1913-2	Yellow		\$19.00	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		\$26.00				
ECX1915-2	White	2	\$31.00				
ECX1921-2	Red	2	\$19.00				
ECX1922-2	Green		\$24.00	] 			
ECX1923-2	Yellow		\$19.00	120V@5mA 0.6 watts	monopioon LED indicators.		
ECX1924-2	Blue		\$26.00				
ECX1925-2	White		\$31.00				



#### Hole plug

Hole Plug				
Part Number	Color	Price	Description	
ECX1490	Black	\$3.00	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	\$7.75	22mm metallic series pilot light replacement lens, 5/pk						
PL1170PV-5	Green	\$7.75	22mm metallic series pilot light replacement lens, 5/pk						
PL1170PG-5	Yellow	\$7.75	22mm metallic series pilot light replacement lens, 5/pk	Part numbers starting with					
PL1170PB-5	Blue	\$7.75	22mm metallic series pilot light replacement lens, 5/pk	GCX123					
PL1170PN-5	Clear	\$7.75	22mm metallic series pilot light replacement lens, 5/pk						
PL1170PW-5	White	\$7.75	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		\$8.25				
ECX1701-5	Red		\$8.25	Ciliana protective covers for use with 22mm standard size flush pushbuttons			
ECX1702-5	Green		\$8.25	Silicone protective covers for use with 22mm standard-size flush pushbuttons.			
ECX1703-5	Yellow		\$8.25	Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or			
ECX1704-5	Blue	5	\$8.25	extended pushbuttons, or 22mm plastic pushbuttons with 40mm actuator face.			
ECX1705-5	Clear	]	\$8.25				
ECX1706-5	Clear		\$14.50	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	\$7.75	<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	\$8.00	PDF	Red,	Replacement contact block for 22mm pushbuttons and selector				
ECX1030-5	5	\$18.50	PDF	normally-closed (N.C.) Green,	switches.				
ECX1040-2	2	\$8.00	PDF		Green, mounting screw: 0	Tightening Torque, terminal screw: 0.8Nm max mounting screw: 0.5Nm max			
ECX1040-5	5	\$18.50	<u>PDF</u>	normally-open (N.O.)	Note: Will not work with Cutler-Hammer 22mm switches.				
ECX1042-2	2	\$8.00	<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)	\$7.25	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	\$3.00	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	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1172PV-5</u>	Green	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX124, GCX125 GCX324, GCX325			
<u>GR1172PG-5</u>	Yellow	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				
GR1172PB-5	Blue	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				
GR1172PN-5	Clear	\$18.00	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk				



GR1172PR-5

#### **Three-Position Short Lever Operator**

3-Position Short Lever Replacement Operator							
Part Number	Lamp Color	Price	3-Position	Use with			
GR1288PR-5	Red	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1288PV-5</u>	Green	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
<u>GR1288PG-5</u>	Yellow	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128 GCX326, GCX328			
GR1288PB-5	Blue	\$18.00	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	00/020, 00/020			
<u>GR1288PN-5</u>	Clear	\$18.00	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	\$8.00	22mm, illuminated momentary Mushroom switch replacement operator, red, 5/pk	Part numbers starting with GCX1221, GCX3221 mushroom-style illuminated pushbuttons				
PL1298P-5	Red	\$8.00	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	Use with							
GR1168PR-5	Red	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk						
GR1168PV-5	Green	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk						
GR1168PG-5	Yellow	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk	Part numbers starting with					
GR1168PB-5	Blue	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX119, GCX120 GCX319, GCX320					
GR1168PN-5	Clear	\$10.00	22mm illuminated flush pushbutton replacement operator, 5/pk						
<u>GR1168PW-5</u>	White	\$10.00	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	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PV-5	Green	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PG-5	Yellow	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk	Part numbers starting with				
PL1308PB-5	Blue	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk	GCX121, GCX321				
PL1308PN-5	Clear	\$7.75	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PW-5	White	\$7.75	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-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	ECX1670A-B46	\$4.25	PDF				
Blank Plate	Black	-	Silver	ECX1670A-B	\$4.25	PDF				
Blank Plate	Red	-	Silver	ECX1670A-R	\$4.25	PDF				
CLAMP	Black	Black	Silver	ECX1670A-B24	\$4.25	PDF				
CLOSE	Black	Black	Silver	ECX1670A-B01	\$4.25	PDF				
DOWN	Black	Black	Silver	ECX1670A-B02	\$4.25	PDF				
EMERG. STOP	Red	Red	Silver	ECX1670A-R03	\$4.25	PDF				
EXTEND	Black	Black	Silver	ECX1670A-B51	\$4.25	PDF				
FEEDER OFF	Black	Black	Silver	ECX1670A-B26	\$4.25	PDF				
FEEDER ON	Black	Black	Silver	ECX1670A-B25	\$4.25	PDF				
FOR OFF REV	Black	Black	Silver	ECX1670A-B19	\$4.25	PDF				
FOR REV	Black	Black	Silver	ECX1670A-B13	\$4.25	PDF				
FORWARD	Black	Black	Silver	ECX1670A-B04	\$4.25	PDF				
GRIP	Black	Black	Silver	ECX1670A-B53	\$4.25	PDF				
HAND-AUTO	Black	Black	Silver	ECX1670A-B14	\$4.25	PDF				
HAND OFF AUTO	Black	Black	Silver	ECX1670A-B20	\$4.25	PDF				
HIGH	Black	Black	Silver	ECX1670A-B27	\$4.25	PDF				
HIGH LOW	Black	Black	Silver	ECX1670A-B43	\$4.25	PDF				
IN	Black	Black	Silver	ECX1670A-B28	\$4.25	PDF				
INCH	Black	Black	Silver	ECX1670A-B29	\$4.25	PDF				
JOG	Black	Black	Silver	ECX1670A-B05	\$4.25	PDF				
JOG FOR	Black	Black	Silver	ECX1670A-B30	\$4.25	PDF				
JOG REV	Black	Black	Silver	ECX1670A-B31	\$4.25	PDF				
JOG RUN	Black	Black	Silver	ECX1670A-B15	\$4.25	PDF				
LOW	Black	Black	Silver	ECX1670A-B32	\$4.25	PDF				
LOWER	Black	Black	Silver	ECX1670A-B33	\$4.25	PDF				
MAN AUTO	Black	Black	Silver	ECX1670A-B44	\$4.25	PDF				

Note: Legend plate text is 3mm in height

Continued on next page





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	\$4.25	PDF
MOTOR RUN	Black	Black	Silver	ECX1670A-B22	\$4.25	PDF
MOTOR STOP	Black	Black	Silver	ECX1670A-B23	\$4.25	PDF
OFF	Black	Black	Silver	ECX1670A-B34	\$4.25	PDF
OFF ON	Black	Black	Silver	ECX1670A-B16	\$4.25	PDF
ON	Black	Black	Silver	ECX1670A-B06	\$4.25	PDF
OPEN	Black	Black	Silver	ECX1670A-B07	\$4.25	PDF
OPEN OFF CLOSE	Black	Black	Silver	ECX1670A-B48	\$4.25	PDF
OPEN CLOSE	Black	Black	Silver	ECX1670A-B17	\$4.25	PDF
оит	Black	Black	Silver	ECX1670A-B35	\$4.25	PDF
POWER ON	Black	Black	Silver	ECX1670A-B21	\$4.25	PDF
PULL ON PUSH OFF	Black	Black	Silver	ECX1670A-B50	\$4.25	PDF
RAISE	Black	Black	Silver	ECX1670A-B36	\$4.25	PDF
READY	Black	Black	Silver	ECX1670A-B37	\$4.25	PDF
RELEASE	Black	Black	Silver	ECX1670A-B54	\$4.25	PDF
RESET	Black	Black	Silver	ECX1670A-B38	\$4.25	PDF
RETRACT	Black	Black	Silver	ECX1670A-B52	\$4.25	PDF
REVERSE	Black	Black	Silver	ECX1670A-B08	\$4.25	PDF
RUN	Black	Black	Silver	ECX1670A-B09	\$4.25	PDF
SAFE RUN	Black	Black	Silver	ECX1670A-B45	\$4.25	PDF
START	Black	Black	Silver	ECX1670A-B10	\$4.25	PDF
STOP	Black	Black	Silver	ECX1670A-B11	\$4.25	PDF
STOP	Red	Red	Silver	ECX1670A-R11	\$4.25	PDF
TEST	Black	Black	Silver	ECX1670A-B39	\$4.25	PDF
TRANSFER	Black	Black	Silver	ECX1670A-B40	\$4.25	PDF
TRIP	Black	Black	Silver	ECX1670A-B41	\$4.25	PDF
UNCLAMP	Black	Black	Silver	ECX1670A-B42	\$4.25	PDF
UP	Black	Black	Silver	ECX1670A-B12	\$4.25	PDF
UP OFF DOWN	Black	Black	Silver	ECX1670A-B49	\$4.25	PDF
UP DOWN	Black	Black	Silver	ECX1670A-B18	\$4.25	PDF

Note: Legend plate text is 3mm in height

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ECX1680A-B17

ECX1680A-R03

Jumbo Aluminum Legend Plates						
Legend	Color of Field	Text Color	Background Color	Part Number	Price	Drawing Link
Blank Plate	Black	-	Silver	ECX1680A-B	\$4.75	PDF
Blank Plate	Red	1	Silver	ECX1680A-R	\$4.75	PDF
EMERG. STOP	Red	Red	Silver	ECX1680A-R03	\$4.75	PDF
HAND OFF AUTO	Black	Black	Silver	ECX1680A-B20	\$4.75	PDF
JOG	Black	Black	Silver	ECX1680A-B05	\$4.75	PDF
OFF ON	Black	Black	Silver	ECX1680A-B16	\$4.75	PDF
OPEN CLOSE	Black	Black	Silver	ECX1680A-B17	\$4.75	PDF
POWER ON	Black	Black	Silver	ECX1680A-B21	\$4.75	PDF
START	Black	Black	Silver	ECX1680A-B10	\$4.75	PDF
STOP	Red	Red	Silver	ECX1680A-R11	\$4.75	PDF

Note: Legend plate text is 3mm in height

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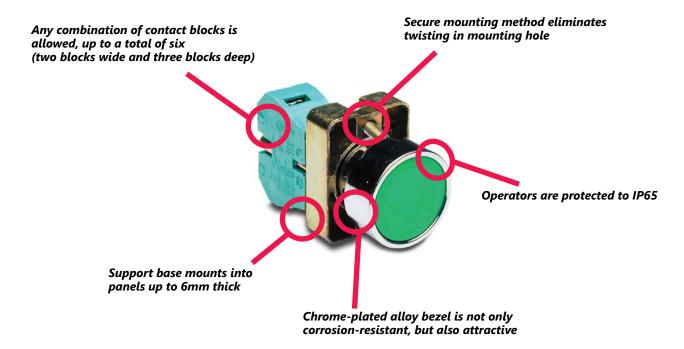
## **E22 Series Cross-reference Tables**

	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 P9XPNNG10N0 ZA2BZ101		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**



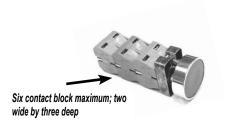
#### **Easy installation**

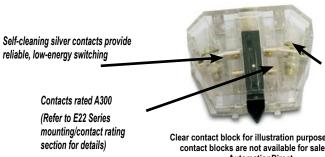


To remove operator, press toward support base and twist counterclockwise.



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.



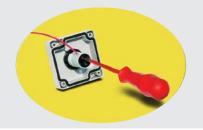


Clear contact block for illustration purposes. Clear contact blocks are not available for sale from AutomationDirect.

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

> Minimum current rating 15mA @ 24vdc

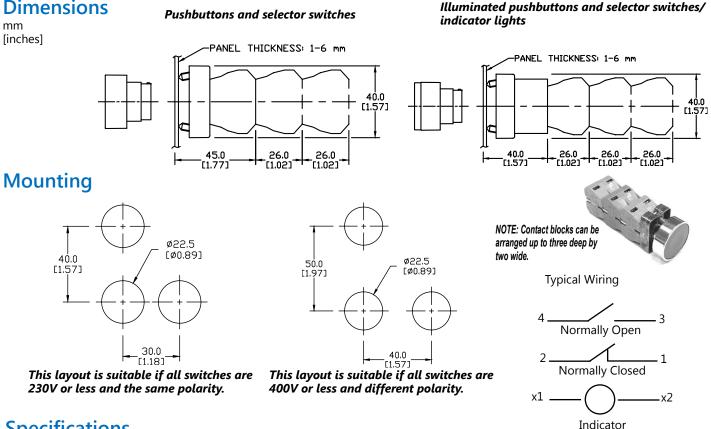
All indicators offer side wire entry with back screw terminals for easy wiring



## **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.

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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