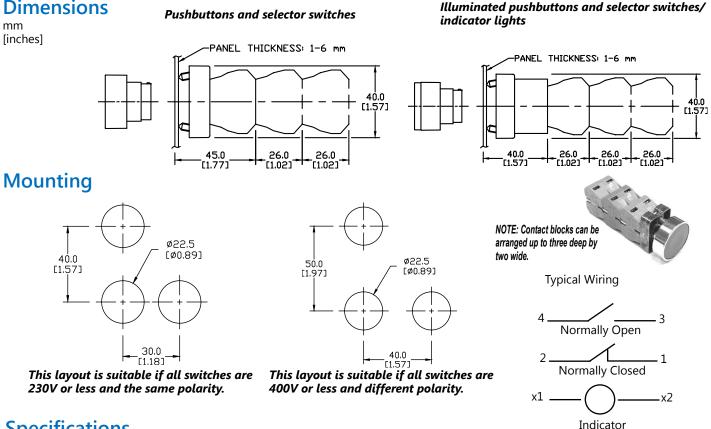
## **GCX Series 22mm Plastic Pilot Devices Specifications**

#### **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	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					

Electri	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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## **GCX Series 22mm Plastic Pushbuttons**

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



GCX3102

	Momentary Flush Pushbuttons									
Part Number	Color	Price	Drawing Link	Description						
GCX3100	Black	\$d3p:	PDF	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole						
GCX3101	Red	\$d3s:	PDF	One N.C. contact block, 30mm dia. actuator, mounts in 22mm hole						
GCX3102	Green	\$d3u:	PDF							
GCX3103	Yellow	\$d3x:	<u>PDF</u>	Over N.O. and the label of 20 and the contration and the 'CO's and the						
GCX3104	Blue	\$d3y:	<u>PDF</u>	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole						
GCX3105	White	\$d3z:	<u>PDF</u>							

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



GCX3106



GCX3107

	Momentary Flush ON/OFF Pushbuttons									
Part Number	Color	Price	Drawing Link	Description						
GCX3106	Red with OFF symbol (O) on actuator	\$;d3]:	<u>PDF</u>	One N.C. contact block,30mm dia. actuator, mounts in 22mm hole						
GCX3107	Green with ON symbol (I) on actuator	\$;d3[:	<u>PDF</u>	One N.O. contact block, 30mm dia. actuator, mounts in 22mm hole						

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

## **GCX Series 22mm Plastic Pushbuttons**

#### **Momentary Extended Pushbuttons**



GCX3113

	Momentary Extended Pushbuttons									
Part Number	Color	Price	Drawing Link	Description						
GCX3110	Black	\$d3_:	PDF	One N.O. contact block, extended 30mm dia. actuator, mounts in 22mm hole						
GCX3111	Red	\$;d3!:	PDF	One N.C. contact block, extended 30mm dia. actuator, mounts in 22mm hole						
GCX3112	Green	\$;d3,:	PDF							
GCX3113	Yellow	\$d41:	<u>PDF</u>	One N.O. contact block, extended 30mm dia. actuator, mounts in 22mm hole						
GCX3114	Blue	\$d42:	PDF	One N.O. Contact block, extended somm did. actuator, mounts in 22mm note						
GCX3115	White	\$d43:	<u>PDF</u>							

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



GCX3152 (with on/off symbols)



GCX3151-24

	Double-headed Momentary Pushbuttons Description							
Part Number	Price	Drawing Link	Description					
GCX3150	\$;0c,0:	<u>PDF</u>	Double-headed for on/off control, One N.O. and one N.C. contact block, fits in 22mm dia. hole, without symbols					
GCX3151-24	\$;0c,2:	<u>PDF</u>	24VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole					
GCX3151-120	\$;0c,1:	PDF	120VDC/VAC double-headed with indicator, faces without symbols. One N.O. and one N.C. contact block, fits in 22mm dia. hole					
GCX3152	\$;0c,3:	PDF	Double-headed for on/off control. One N.O. and one N.C. contact block, fits in 22mm dia. hole. With "ON" (I) and "OFF" (0) symbols					
GCX3153-24	\$;0c,5:	<u>PDF</u>	24VDC/VAC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block					
GCX3153-120	\$;0c,4:	<u>PDF</u>	120VDC/AC double-headed with indicator, with ON (1) and OFF (0) symbols. One N.O. and one N.C. contact block					

<sup>\*</sup> Note: Lamp data in 22mm Plastic Pilot Device Accessories in this section.

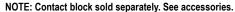
For accessories, see 22mm Plastic Pilot Device Accessories in this section.

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

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

	Momentary Flush Pushbutton Operators								
Part Number	Color	Price	Drawing Link	Description					
GCX3100-SC	Black	\$d3q:	PDF	22mm plastic pushbutton operator, flush, includes 30mm diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole.					
GCX3101-SC	Red	\$;d3t:	PDF	22mm plastic pushbutton operator, flush, includes 30mm diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole.					
GCX3102-SC	Green	\$d3v:	PDF	22mm plastic pushbutton operator, flush, includes 30mm diameter operator and support base ONLY. Contact blocks sold separately. Mounts in 22mm hole.					





GCX3100-SC



GCX3101-SC

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

	Momentary Extended Pushbutton Operators								
Part Number	Color	Price	Drawing Link	Description					
GCX3110-SC	Black	\$d3#:	PDF	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.					
GCX3111-SC	Red	\$d3?:	PDF	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.					
GCX3112-SC	Green	\$d40:	PDF	22mm plastic pushbutton operator, extended, includes 30mm diameter operator and support base ONLY. Contact block sold separately. Mounts in 22mm hole.					

NOTE: Contact block sold separately. See accessories.



GCX3111-SC

#### **Contact Blocks**

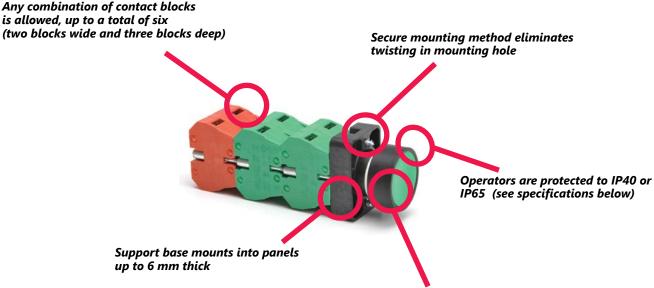
Contact blocks are available for all these products. See accessories.



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

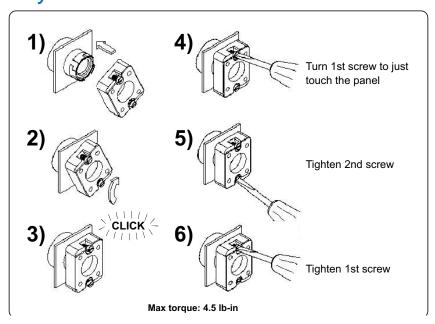
## **GCX Series 22mm Plastic Pilot Devices**

#### **Features**



Fiberglass reinforced thermoplastic bezel

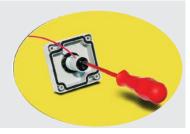
#### **Easy installation**







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



Self-cleaning silver contacts provide reliable, low-energy switching

> Contacts rated A300 (Refer to E22 Series mounting/contact rating section for details)

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

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

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#### 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	\$0ec1:	6V@ 200mA 1.2 watts	6V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4						
ECX1902-5	5	\$0ec2:	24V@ 80mA 2 watts	24V replacement bulb for 22mm switches and indicators. Miniature bayonet base T31/4						
ECX1904-5	5	\$0ec3:	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		\$0e9c:						
ECX1912-2	Green		\$0e9d:	041/000 4					
ECX1913-2	Yellow		\$0e9e:	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		\$;0e9f:						
ECX1915-2	White		\$0e9g:						
ECX1921-2	Red	2	\$0e9h:						
ECX1922-2	Green		\$-0e9i:	400140= 4					
ECX1923-2	Yellow		\$-0e9j:	120V@5mA 0.6 watts	MONOBIOCK ELD INDICATORS.				
ECX1924-2	Blue		\$0e9k:	0.0 Walls					
ECX1925-2	White		\$-0e9I:						

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	\$;6b!:	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		\$-4j9:						
ECX1701-5	Red	5	\$-4ja:	Silicone protective covers for use with 22mm standard-size flush					
ECX1702-5	Green		\$-4jb:	pushbuttons.					
ECX1703-5	Yellow		\$-4jc:	Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or extended pushbuttons, or 22mm plastic pushbuttons					
ECX1704-5	Blue		\$-4jd:	with 40mm actuator face.					
ECX1705-5	Clear		\$-4je:						
ECX1706-5	Clear		\$;-04jf:	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	\$;6u]:	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.

#### **Replacement 22mm Support Base**

Replacement 22mm Support Base					
Part Number	Part Number Quantity Price Drawing Link Description				
ECX3029-2	1	\$;c?]:	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	\$dg3:	PDF	Red,	Replacement contact block for 22mm pushbuttons and				
ECX1030-5	5	\$0dg4:	PDF	normally-closed (N.C.)	selector switches. Tightening Torque, terminal screw: 0.8 N⋅m max				
ECX1040-2	2	\$dg5:	PDF	Green,	mounting screw: 0.5 N·m max Note: Will not work with Cutler-Hammer 22mm switches				
ECX1040-5	5	\$0dg6:	PDF	normally-open (N.O.)	sold by AutomationDirect				
ECX1042-2	2	\$dg7:	<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				Description		
ECX1651 1 \$-6bl: PDF Oversize yellow circular EMERGENCY STOP legend plate for 22mm E-sto mushroom pushbuttons, 60mm outside diameter.		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	Lamp Color	Price	2-Position	Use with				
<u>GR1172PR-5</u>	Red	\$;0df0:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk					
GR1172PV-5	Green	\$;0df1:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with				
GR1172PG-5	Yellow	\$0de?:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	GCX124, GCX125				
GR1172PB-5	Blue	\$;0de!:	22mm 2-position selector switch illuminated short lever replacement operator, 5/pk	GCX324, GCX325				
GR1172PN-5	Clear	\$;0de,:	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	ort Number Lamp Color Price 3-Position						
<u>GR1288PR-5</u>	Red	\$;0df5:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
GR1288PV-5	Green	\$;0dfv:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				
GR1288PG-5	Yellow \$;0df3:		22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	Part numbers starting with GCX126, GCX128			
GR1288PB-5	Blue	\$;0df2:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk	GCX326, GVX328			
GR1288PN-5	Clear	\$;0df4:	22mm 3-position selector switch illuminated short lever replacement operator, 5/pk				



GR1288PR-

#### **Mushroom Switch Replacement Operator**

Mushroom Switch Replacement Operator								
Part Number	Lamp Color	Price	Description	Use with				
<u>PL1171PR-5</u>	Red	\$;-dfl:	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	\$;dfn:	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	\$;0de[:	22mm illuminated flush pushbutton replacement operator, 5/pk					
<u>GR1168PV-5</u>	Green	\$0de_:	22mm illuminated flush pushbutton replacement operator, 5/pk					
<u>GR1168PG-5</u>	Yellow	\$0dez:	22mm illuminated flush pushbutton replacement operator, 5/pk	Part numbers starting with				
GR1168PB-5	Blue	\$0dey:	22mm illuminated flush pushbutton replacement operator, 5/pk	GCX119, GCX120 GCX319, GCX320				
<u>GR1168PN-5</u>	Clear	\$;0de]:	22mm illuminated flush pushbutton replacement operator, 5/pk					
<u>GR1168PW-5</u>	White	\$0de#:	22mm illuminated flush pushbutton replacement operator, 5/pk					



#### **Extended Pushbutton Replacement Operator**

	Extended Pushbutton Replacement Operator							
Part Number	Number Lamp Color Price Description							
PL1308PR-5	Red	\$;dfs:	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PV-5	Green	\$;;dft:	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PG-5	Yellow	low \$;dfp: 22mm illuminated extended pushbutton, replacement operator, 5/pk		Part numbers starting with				
PL1308PB-5	Blue	\$;dfo:	22mm illuminated extended pushbutton, replacement operator, 5/pk	GCX121, GCX321				
PL1308PN-5	Clear	\$;dfq:	22mm illuminated extended pushbutton, replacement operator, 5/pk					
PL1308PW-5	White	\$;dfu:	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	\$;3,37:	PDF
Blank Plate	Black	ECX1670-B	\$;3,22:	PDF
Blank Plate	Red	ECX1670-R	\$;3,3g:	<u>PDF</u>
CLAMP	Black	ECX1670-B24	\$;3,2q:	PDF
CLOSE	Black	ECX1670-B01	\$;3,23:	PDF
DOWN	Black	ECX1670-B02	\$;3,24:	PDF
EMERG. STOP	Red	ECX1670-R03	\$;3,3h:	PDF
EXTEND	Black	ECX1670-B51	\$;3,3c:	PDF
FEEDER OFF	Black	ECX1670-B26	\$;;3,2t:	PDF
FEEDER ON	Black	ECX1670-B25	\$;3,2s:	PDF
FOR OFF REV	Black	ECX1670-B19	\$;3,2k:	PDF
FOR-REV	Black	ECX1670-B13	\$;3,2e:	PDF
FORWARD	Black	ECX1670-B04	\$;3,25:	PDF
GRIP	Black	ECX1670-B53	\$;3,3e:	PDF
HAND-AUTO	Black	ECX1670-B14	\$;;3,2f:	PDF
HAND OFF AUTO	Black	ECX1670-B20	\$;-3,21:	PDF
HIGH	Black	ECX1670-B27	\$;3,2u:	<u>PDF</u>
HIGH LOW	Black	ECX1670-B43	\$;3,34:	PDF
IN	Black	ECX1670-B28	\$;3,2v:	PDF
INCH	Black	ECX1670-B29	\$;3,2x:	PDF
JOG	Black	ECX1670-B05	\$;3,26:	PDF
JOG FOR	Black	ECX1670-B30	\$;3,2y:	PDF
JOG REV	Black	ECX1670-B31	\$;3,2z:	PDF
JOG-RUN	Black	ECX1670-B15	\$;3,2g:	PDF
LOW	Black	ECX1670-B32	\$;;3,2]:	<u>PDF</u>
LOWER	Black	ECX1670-B33	\$;;3,2[:	<u>PDF</u>

Note: Legend plate text is 3mm in height

PI:	Plastic Legend Plates							
Legend	Color of Field	Part Number	Price	Drawing Link				
MAN AUTO	Black	ECX1670-B44	\$;3,35:	PDF				
MAN OFF AUTO	Black	ECX1670-B47	\$;3,38:	PDF				
MOTOR RUN	Black	ECX1670-B22	\$;3,20:	PDF				
MOTOR STOP	Black	ECX1670-B23	\$;3,2p:	PDF				
OFF	Black	ECX1670-B34	\$;3,2_:	PDF				
OFF-ON	Black	ECX1670-B16	\$;3,2h:	PDF				
ON	Black	ECX1670-B06	\$;3,27:	PDF				
OPEN	Black	ECX1670-B07	\$;3,28:	PDF				
OPEN OFF CLOSE	Black	ECX1670-B48	\$;3,39:	PDF				
OPEN-CLOSE	Black	ECX1670-B17	\$;-3,2i:	PDF				
OUT	Black	ECX1670-B35	\$;3,2#:	PDF				
POWER ON	Black	ECX1670-B21	\$;3,2n:	PDF				
PULL ON PUSH OFF	Black	ECX1670-B50	\$;3,3b:	PDF				
RAISE	Black	ECX1670-B36	\$;;3,2!:	PDF				
READY	Black	ECX1670-B37	\$;3,2?:	<u>PDF</u>				
RELEASE	Black	ECX1670-B54	\$;;3,3f:	PDF				
RESET	Black	ECX1670-B38	\$;;3,2,:	PDF				
RETRACT	Black	ECX1670-B52	\$;3,3d:	PDF				
REVERSE	Black	ECX1670-B08	\$;3,29:	PDF				
RUN	Black	ECX1670-B09	\$;3,2a:	PDF				
SAFE RUN	Black	ECX1670-B45	\$;3,36:	PDF				
START	Black	ECX1670-B10	\$;3,2b:	PDF				
STOP	Black	ECX1670-B11	\$;3,2c:	PDF				
STOP	Red	ECX1670-R11	\$;-3,3i:	PDF				
TEST	Black	ECX1670-B39	\$;3,30:	PDF				
TRANSFER	Black	ECX1670-B40	\$;3,31:	PDF				
TRIP	Black	ECX1670-B41	\$;3,32:	PDF				
UNCLAMP	Black	ECX1670-B42	\$;3,33:	PDF				
UP	Black	ECX1670-B12	\$;3,2d:	PDF				
UP OFF DOWN	Black	ECX1670-B49	\$;3,3a:	PDF				
UP-DOWN	Black	ECX1670-B18	\$;-3,2j:	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	\$;3,3v:	PDF			
Blank Plate	Red	ECX1690-R	\$;3,3#:	<u>PDF</u>			
EMERG. STOP	Red	ECX1690-R03	\$;;3,3!:	PDF			
HAND-OFF-AUTO	Black	ECX1690-B20	\$;;3,3[:	PDF			
JOG	Black	ECX1690-B05	\$;3,3x:	PDF			
OFF-ON	Black	ECX1690-B16	\$;3,3z:	PDF			
OPEN-CLOSE	Black	ECX1690-B17	\$;;3,3]:	PDF			
POWER ON	Black	ECX1690-B21	\$;3,3_:	PDF			
START	Black	ECX1690-B10	\$;3,3y:	PDF			
STOP	Red	ECX1690-R11	\$;3,3?:	PDF			

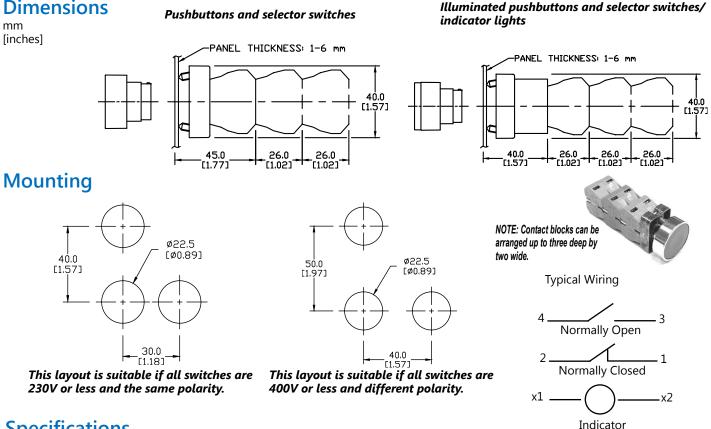
Note: Legend plate text is 3mm in height

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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.

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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