ECX Series 22mm Metal Pilot Devices

Audible Annunciator

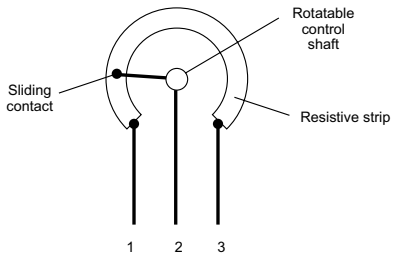
- 80dB @ 10cm
- 25mA @ 24V
- Intermittent sound when energized
- IP20 before installation
- IP65 after installation

22mm Audible Annunciators				
Part Number	***Color***	***Price***	***Drawing Link***	***Description***
ECX2070-24	Black	$c#v:	PDF	AutomationDirect audible alarm buzzer, 80 dB at 10cm, 2.4 kHz tone frequency, pulse tone(s), 24 VAC/VDC, 22mm, panel mount, plastic housing, black, IP65.
ECX2070-127	Black	$c#u:	PDF	AutomationDirect audible alarm buzzer, 80 dB at 10cm, 2.4 kHz tone frequency, pulse tone(s), 120 VAC/VDC, 22mm, panel mount, plastic housing, black, IP65.
ECX2071-24R	Red	$0c?2:	PDF	AutomationDirect audible alarm buzzer, 80 dB at 10cm, 2.8 kHz tone frequency, pulse tone(s), 24 VAC/VDC, permanent LED indicator(s), red, 22mm, panel mount, plastic housing, red, IP65.
ECX2071-127R	Red	$0c?1:	PDF	AutomationDirect audible alarm buzzer, 80 dB at 10cm, 2.8 kHz tone frequency, pulse tone(s), 120 VAC/VDC, permanent LED indicator(s), red, 22mm, panel mount, plastic housing, red, IP65.

22mm Potentiometer

- IP65

22mm Potentiometers				
Part Number	***Quantity***	***Price***	***Drawing Link***	***Description***
ECX2300-5K	1	$0665:	PDF	22mm potentiometer with 5kΩ resistance, ±10%. Nominal voltage: 250V. Rated dissipation: 2W at 25°C. Temperature range -40 to 70°C. Black handle. Connection type is screw terminal, 3-pole, 22-14 AWG.
ECX2300-10K	1	$0664:	PDF	22mm potentiometer with 10kΩ resistance, ±10%.Nominal voltage: 250V. Rated dissipation: 2W at 25°C. Temperature range -40 to 70°C. Black handle. Connection type is screw terminal, 3-pole, 22-14 AWG.
ECX2640	1	$6bn:	NA	22mm legend plate for potentiometer with 0% to 100% marking, 50mm square. 50 x 50 x 1mm with 24.5 mm cutout.



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

GCX Series 22mm Plastic Pilot Devices Specifications

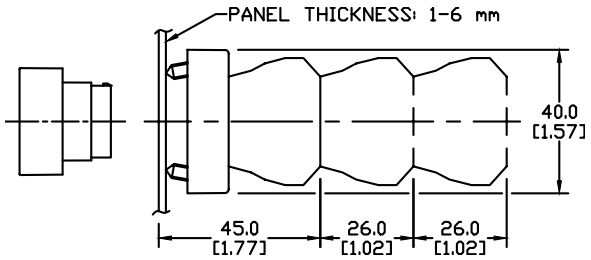
Assembly information

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.

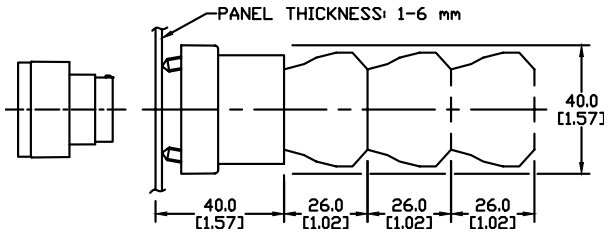
Dimensions

mm
[inches]

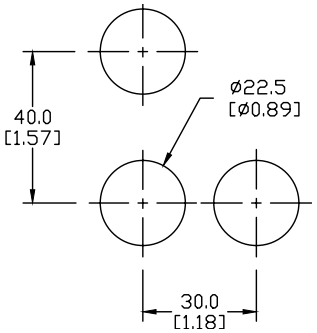
Pushbuttons and selector switches



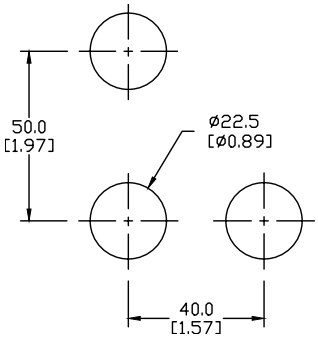
Illuminated pushbuttons and selector switches/ indicator lights



Mounting



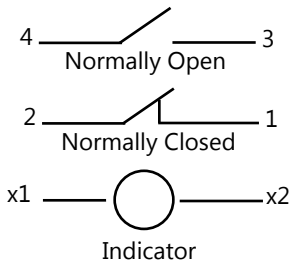
This layout is suitable if all switches are 230V or less and the same polarity.



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 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 80ºC (-40 to 176º F) Operating: -25º to +70ºC (-13º to 158º 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**