GCX/ECX Series 22mm Metal Pilot Devices Selection Guide



Flush

- Momentary 30 or 40mm operators
- Available in six colors: black, red, yellow, blue, white and green
- One contact block included
- ON/OFF models also available



Extended

- Momentary 30mm operators
- Available in six colors: black, red, yellow, blue, white and green
- One contact block included



Two way

- Two way on/off control
- With or without illuminated indicators

Audible annunciators

Audible annunciators with or without LED

and potentiometers

 One N.O. and one N.C. contact block included



Illuminated

- Available in clear, red, yellow, blue, white and green; 24 and 120-volt models
- Momentary and push-push styles
- Flush or extended operators available
- Incandescent and LED models
- One contact block included



Selector switches

- Two and three-position in spring return and maintained, non-illuminated and illuminated; incandescent and LED models
- Contact block included





Mushroom

- Available in momentary, twist-to-release, and key release models
- One contact block included
- Also available in incandescent and LED illuminated models



Key switches

- Two and three-position
- Contact blocks included

Pilot lights

- Available in six colors: red, green, white, clear, yellow and blue
- 24 and 120-volt models with LED
- Frosted diffuser for even lighting
- Incandescent or LED indicators



Joysticks

- Two and four-position, maintained and momentary
- Contact blocks included

Accessories

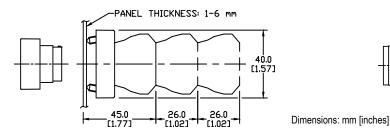


1-800-633-0405 **GCX Series 22mm Metal Pilot Devices Specifications**

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



Ø22.5 50.0 [1.97] [Ø0.89] 40.0

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

ø22.5

[Ø0.89]

Specifications

Mounting

4<u>0</u>.0

[1.57]

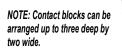
These specifications apply to all GCX and ECX 22 mm metal pushbuttons and switches.

30.0

[1.18]

Dhucical Specifications				
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 <u>GCX3151-24,GCX3151-120</u> , <u>GCX3153-24</u> and <u>GCX3153-120</u> . 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			

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



Typical

Wiring

26.0

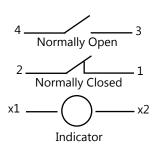
26.0

Illuminated pushbuttons and selector switches/pilot lights

PANEL THICKNESS: 1-6 mm

26.0

40.0



40.0 [1.57]

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		
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

1-800-633-0405 **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.

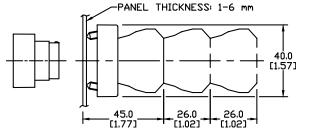
Dimensions

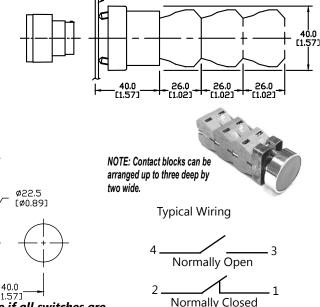
Pushbuttons and selector switches

Illuminated pushbuttons and selector switches/ indicator lights

PANEL THICKNESS: 1-6 mm

mm [inches]



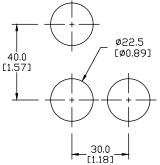


x1 _

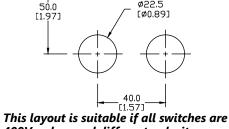
Indicator

x2

Mounting



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



400V or less and different polarity.

Specifications

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

EN 60947-5-1, CSA C22-2 n.14 File E189258, IMQ (where specified) rglass reinforced thermoplastic er 0 for <u>GCX3151-24</u> , <u>GCX3151-120</u> , <u>GCX3153-24</u> and (<u>3153-120</u> . IP65 for all others.(See Appendix of this log for explanation of IP ratings according to IEC 144 70-1.)	Rated Thermal Current (contact block) Rated Insulation Voltage Dielectric Strength Insulation Resistance Initial Contact Resistance	A300, Q300 (Refer to E22 Series mounting/contact rating section for details) Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508 3kV (1 second) 2MΩ min. (500VDC)
rglass reinforced thermoplastic er 0 for <u>GCX3151-24</u> , <u>GCX3151-120</u> , <u>GCX3153-24</u> and (<u>3153-120</u> . IP65 for all others.(See Appendix of this log for explanation of IP ratings according to IEC 144	Rated Insulation Voltage Dielectric Strength Insulation Resistance	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508 3kV (1 second) 2MΩ min. (500VDC)
or for <u>GCX3151-24</u> , <u>GCX3151-120</u> , <u>GCX3153-24</u> and (3153-120. IP65 for all others.(See Appendix of this log for explanation of IP ratings according to IEC 144	Dielectric Strength Insulation Resistance	300V according to CSA C22-2 n.14 and UL 508 3kV (1 second) 2MΩ min. (500VDC)
) for <u>GCX3151-24</u> , <u>GCX3151-120</u> , <u>GCX3153-24</u> and (<u>3153-120</u> . IP65 for all others.(See Appendix of this log for explanation of IP ratings according to IEC 144	Insulation Resistance	2MΩ min. (500VDC)
(3153-120. IP65 for all others.(See Appendix of this log for explanation of IP ratings according to IEC 144		
log for explanation of IP ratings according to IEC 144	Initial Contact Resistance	< 05-0
70-1.)		$\leq 25m\Omega$
	Short-Circuit Protection*	Cartridge fuses gl 10 A-500V 10, 3x38l1 100 KA
536, Class II	Terminal Markings	According to CENELEC EN 50013
age: -40 -to 80°C (-40 to 176° F) rating: -25° to +70°C (-13° to 158° F)	Connections	Single screw with non-loosening plate clamp,14AWG max.,Tighten to 0.8Nm max
vorking positions are allowed	Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow- action, positive opening
	Operation Frequency	3600 operations per hour max.
0,000 operations rgency mushrooms and push-push pushbuttons: 000 operations	Utilization Category	AC15 (Control of AC electromagnetic loads) 24 volts AC at 10 amps 130 volts AC at 6.5 amps DC12 (Control of DC electromagnetic loads)
ording to IEC 947-5-1)		DC13 (Control of DC electromagnetic loads) 24 volts DC at 1.5 amps 110 volts DC at 0.5 amps
hl 0 er 0	buttons, selector switches, joy stick switches: ,000 operations gency mushrooms and push-push pushbuttons: 00 operations	Duttons, selector switches, joy stick switches: Operation Frequency 000 operations Utilization Category utilization Category Utilization Category

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