

GCX Series 22 mm Metal Pilot Devices

Features

Any combination of contact blocks is allowed, up to a total of six (two blocks wide and three blocks deep)

Secure mounting method eliminates twisting in mounting hole

Support base mounts into panels up to 6 mm thick

Operators are protected to IP65

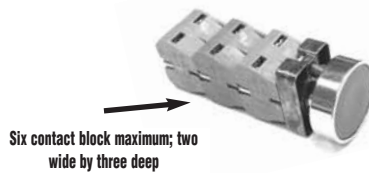
Chrome-plated alloy bezel is not only corrosion-resistant, but also attractive



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



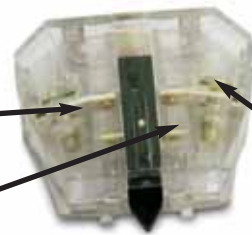
To install switch, place support base against rear of panel (not shown here), insert the operator and twist clockwise until it clicks into place. Carefully tighten the securing screws. Do not over-tighten.



Six contact block maximum; two wide by three deep

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

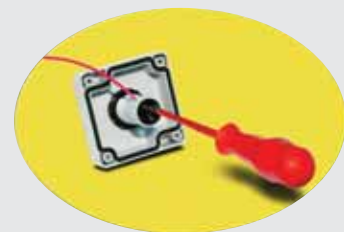
Contacts rated A300
(Refer to page e24-51)



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 AutomationDirect.

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



22 mm Metal Pilot Devices Selection Guide



Flush

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

Ours: \$6.50 (GCX1100)
Allen-Bradley: \$28.85* (800F-MX10, 800F-ALM + 800FM-F2)



Extended

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

Ours: \$7.25 (GCX1110)
Allen-Bradley: \$31.22* (800F-MX01, 800F-ALM + 800FM-E2)



Two way

- Two way on/off control
- With or without illuminated indicators
- One NO and one NC contact block included



Illuminated

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

Ours: \$12.00 (GCX1212-24)
Allen-Bradley: \$17.32* (800FM-LE3 + 800F-ALM, D3C)



Mushroom

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

Ours: \$12.50 (GCX1131)
Allen-Bradley: \$55.85* (800FM-MT44 + 800F-MX01 + 800F-ALM)



Audible annunciators and potentiometers

- Audible annunciators with or without LED indicator
- 5 and 10 K Ω potentiometers



Selector switches

- Two and three-position in spring return and maintained, non-illuminated and illuminated
- Contact block included

Ours: \$9.75 (GCX1300)
Allen-Bradley: \$34.89* (800FM-SM22 + 800F-MX10 + 800F-ALM)



Key switches

- Two and three-position
- Contact blocks included

Ours: \$18.00 (GCX1420)
Allen-Bradley: \$59.89* (800FM-KM21 + 800F-MX10 + 800F-ALM)



Joysticks

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

Ours: \$26.25 (ECX1510)
Allen-Bradley: \$127.42* (800FM-JR2 + 800F-MX20 + 800F-ALM)



Indicating lights

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

Ours: \$5.50 (ECX1052-24)
Allen-Bradley: \$40.10* (800FM-P3 + 800F-ALM + 800F-D3C)



- One to six-hole enclosures
- Bulbs and LEDs
- Protective actuator caps

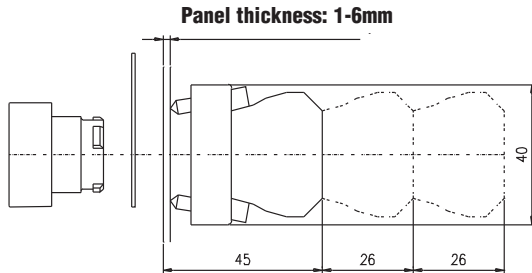
*All prices are U.S. published prices. AutomationDirect's prices are from March 2010 Price List. Prices and specifications may vary by dealer and configuration. Allen-Bradley industrial control component prices from <http://shop.rockwellautomation.com> 10/15/09.

22 mm Metal Pilot Devices Specifications

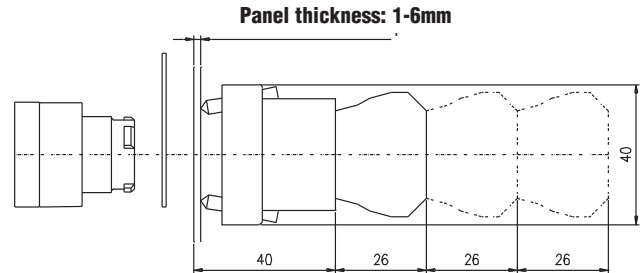
Assembly information

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

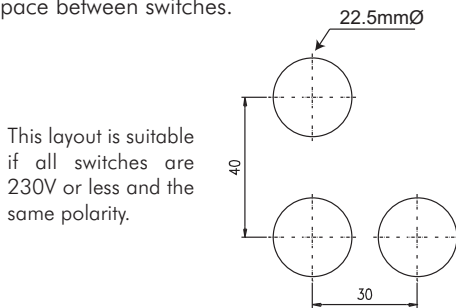


Lighted pushbuttons and selector switches/pilot lights



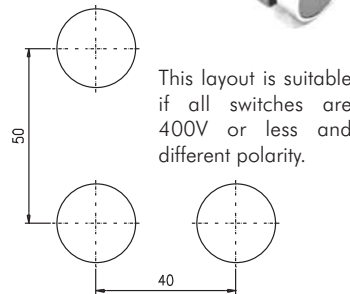
Panel holes

For safe operation, use these mounting hole drawings to ensure that there is adequate space between switches.



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

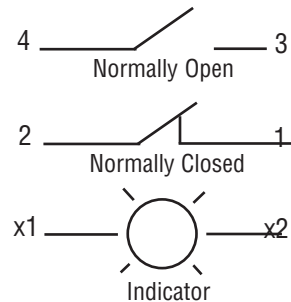
NOTE: Contact blocks can be arranged up to three deep by three wide.



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

All dimensions are in millimeters. 25.4mm = 1 inch. For example, 30 mm in inches = 30/25.4 = 1.181 inches.

Typical Wiring



Specifications

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

Physical Specifications		Electrical Specifications	
Standards Reference	CEI EN 60947-5-1, CSA C22-2 n.14	Rated Thermal Current (contact block)	A300, Q300 (Refer to page e25-51, for more information.)
Approvals	CSA, IMQ (where specified), UL File E189258	Rated Insulation Voltage	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14
Enclosure Material	Zn + Al + Mg alloy, chromium plated	Dielectric Strength	3KV (1 second)
Contacts Material	Gold plated silver	Insulation Resistance	2MΩ min. (500VDC)
Protection Degree	IP 40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP 65 for all others. (See Appendix of this catalog for explanation of IP ratings according to IEC 144 CEI 70-1.)	Initial Contact Resistance	≤25mΩ
Temperature Ratings	Storage: -40° to 80°C (-40° to 176° F) Operating: -25° to +70°C (-13° to 158° F)	Short-Circuit Protection*	Cartridge fuses gl 10 A-500V 10,3x381 100 KA
Working Positions	All working positions are allowed	Terminal Markings	According to CENELEC EN 50013
Mechanical Life	Pushbuttons, selector switches: Joy stick switches: 1,000,000 operations Mushroom pushbuttons: 300,000 operations	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