

# GCX/ECX Series 22mm Plastic Pilot Devices Selection Guide



## Flush

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



## Extended

- Momentary 30 mm 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
- One N.O. and one N.C. 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
- Incandescent and LED models
- One 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



## Selector switches

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



## Key switches

- Two and three-position
- Contact blocks included



## Joysticks

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



## Indicator lights

- Available in popular colors
- 24 and 120-volt models
- Frosted diffuser for even lighting
- Incandescent or LED indicators

## Accessories



- One through six-hole enclosures



- Bulbs and LEDs



- Protective actuator caps

# GCX Series 22mm Plastic Pilot Devices

## Specifications

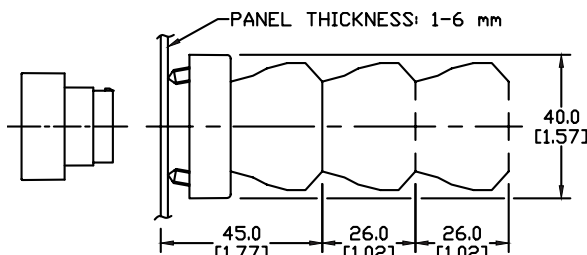
### Assembly information

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.

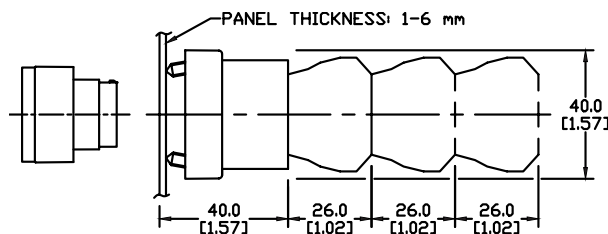
### Dimensions

mm  
[inches]

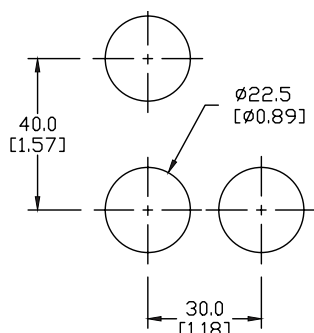
**Pushbuttons and selector switches**



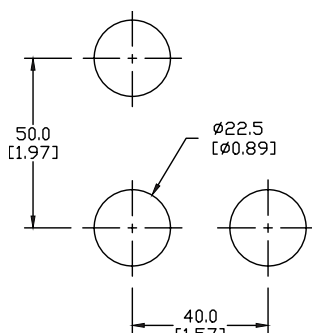
**Illuminated pushbuttons and selector switches/indicator lights**



### Mounting



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

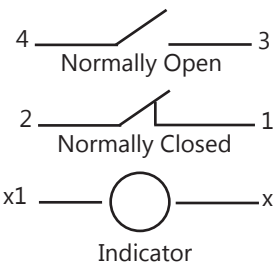


**This layout is suitable if all switches are 400V or less and different polarity.**

**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           |                                                                                                                                                                                | Electrical Specifications                    |                                                                                                                                                                                                       |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standards Reference</b>        | CEI EN 60947-5-1, CSA C22-2 n.14                                                                                                                                               | <b>Rated Thermal Current (contact block)</b> | A300, Q300 (Refer to E22 Series mounting/contact rating section for details)                                                                                                                          |
| <b>Approvals</b>                  | UL File E189258, IMQ (where specified)                                                                                                                                         | <b>Rated Insulation Voltage</b>              | Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508                                                                                                                    |
| <b>Enclosure Material</b>         | Fiberglass reinforced thermoplastic                                                                                                                                            | <b>Dielectric Strength</b>                   | 3kV (1 second)                                                                                                                                                                                        |
| <b>Contacts Material</b>          | Silver                                                                                                                                                                         | <b>Insulation Resistance</b>                 | 2MΩ min. (500VDC)                                                                                                                                                                                     |
| <b>Protection Degree</b>          | 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.) | <b>Initial Contact Resistance</b>            | ≤ 25mΩ                                                                                                                                                                                                |
| <b>Electric Shock Protection</b>  | IEC 536, Class II                                                                                                                                                              | <b>Short-Circuit Protection*</b>             | Cartridge fuses gl 10 A-500V 10, 3x38/1 100 KA                                                                                                                                                        |
| <b>Temperature Ratings</b>        | Storage: -40 to 80°C (-40 to 176° F)<br>Operating: -25° to +70°C (-13° to 158° F)                                                                                              | <b>Terminal Markings</b>                     | According to CENELEC EN 50013                                                                                                                                                                         |
| <b>Working Positions</b>          | All working positions are allowed                                                                                                                                              | <b>Connections</b>                           | Single screw with non-loosening plate clamp, 14AWG max., Tighten to 0.8Nm max                                                                                                                         |
| <b>Mechanical Life</b>            | Pushbuttons, selector switches, joy stick switches: 1,000,000 operations<br>Emergency mushrooms and push-push pushbuttons: 300,000 operations                                  | <b>Contacts Operation</b>                    | Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow-action, positive opening                                                                                                                            |
| <b>Positive Opening Operation</b> | (according to IEC 947-5-1)<br>All functions incorporating an NC contact are positive opening operation                                                                         | <b>Operation Frequency</b>                   | 3600 operations per hour max.                                                                                                                                                                         |
|                                   |                                                                                                                                                                                | <b>Utilization Category</b>                  | AC15 (Control of AC electromagnetic loads)<br>24 volts AC at 10 amps<br>130 volts AC at 6.5 amps<br>DC13 (Control of DC electromagnetic loads)<br>24 volts DC at 1.5 amps<br>110 volts DC at 0.5 amps |

\*Note: Recommended, not supplied