# **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







Bulbs and LEDs



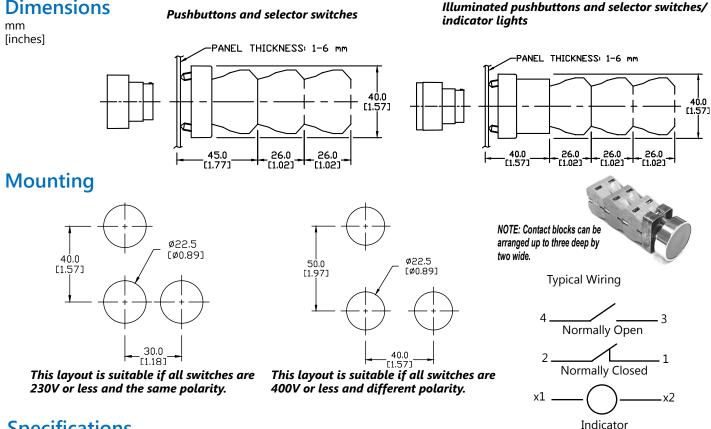
Protective actuator caps

six-hole enclosures

# **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<br>Protection  | IEC 536, Class II   |
| Temperature Ratings           | Storage: -40 -to 80°C (-40 to 176° F)<br>Operating: -25° to +70°C (-13° to 158° F)  |
| Working<br>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<br>Operation | (according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation   |

| Electrical Specifications                |  |
|--|--|
| Rated Thermal<br>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,<br>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

www.automationdirect.com **Pilot Devices** tPIL-3