## GCX/ECX Series 22mm 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



## 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; 24 and 120-volt models
- Momentary and push-push styles
- Flush or extended operators available
- 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



## Audible annunciators and potentiometers

- Audible annunciators with or without LED indicator
- 5 and $10 \mathrm{~K} \Omega$ potentiometers


Joysticks

- Two and four-position, maintained and momentary
- Contact blocks included
and maintained non-illuminated and maintained, non-illuminated and illuminated; incandescent and LED models
- Contact block 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

Accessories


## GCX Series 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

Illuminated pushbuttons and selector switches/pilot lights


Mounting


This layout is suitable if all switches are $\mathbf{2 3 0 V}$ or less and the same polarity.


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

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

Typical Wiring


## Specifications

## 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 $\mathbf{2 3 0 V}$ or less and the same polarity.


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

## Specifications

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

Typical Wiring


x1


Indicator

These specifications apply to all the GCX and ECX 22 mm 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 $80^{\circ} \mathrm{C}\left(-40\right.$ to $\left.176^{\circ} \mathrm{F}\right)$ Operating: $-25^{\circ}$ to $+70^{\circ} \mathrm{C}\left(-13^{\circ}\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Working Positions | All working positions are allowed |
| Mechanical Life | Pushbuttons, selector switches, joy stick switches: 1,000,000 operations <br> Emergency mushrooms and push-push pushbuttons: 300,000 operations |
| Positive Opening Operation | (according to IEC 947-5-1) <br> All functions incorporating an NC contact are positive opening operation |


| Egctrical 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, 300 V according to CSA C22-2 n. 14 and UL 508 |
| Dielectric Strength | 3 kV (1 second) |
| Insulation Resistance | 2M 2 min. (500VDC) |
| Initial Contact Resistance | $\leq 25 \mathrm{~m} \Omega$ |
| Short-Circuit Protection* | Cartridge fuses gl $10 \mathrm{~A}-500 \mathrm{~V}$ 10, 3×3811 100 KA |
| Terminal Markings | According to CENELEC EN 50013 |
| Connections | Single screw with non-loosening plate clamp,14AWG max., Tighten to 0.8 Nm max |
| Contacts Operation | Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slowaction, 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

