ECX Series 22mm Metal Pilot Devices

Audible annunciator

- 80dB @ 10cm
- 25mA @ 24V
- Intermittent sound when energized
- IP20 before installation
- IP65 after installation

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECX2070-24</td>
<td>Black</td>
<td>$6.75</td>
<td>22mm, 25mA audible (80dB at 10cm) buzzer annunciator. 24VAC/DC</td>
</tr>
<tr>
<td>ECX2070-127</td>
<td>Black</td>
<td>$6.75</td>
<td>22mm, 25mA audible (80dB at 10cm) buzzer annunciator. 120VAC/DC</td>
</tr>
<tr>
<td>ECX2071-24R</td>
<td>Red</td>
<td>$8.75</td>
<td>22mm, 25mA audible (80dB at 10cm) buzzer annunciator with non-replaceable LED indicator. 24VAC/DC</td>
</tr>
<tr>
<td>ECX2071-127R</td>
<td>Red</td>
<td>$8.75</td>
<td>22mm, 25mA audible (80dB at 10cm) buzzer annunciator with non-replaceable LED indicator. 120VAC/DC</td>
</tr>
</tbody>
</table>

Dimensions: mm [inches]

22mm potentiometer

- IP65
- Rotatable control shaft
- Sliding contact
- Resistive strip

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Quantity</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECX2300-5K</td>
<td>pkg. of 1</td>
<td>$38.00</td>
<td>22mm potentiometer with 5kΩ resistance, ±10%. Nominal voltage: 250V. Rated dissipation: 2W at 25°C. Temperature range: -40°C to 70°C. Black handle. Connection type is screw terminal, 3-pole, 22-14 AWG.</td>
</tr>
<tr>
<td>ECX2300-10K</td>
<td>pkg. of 1</td>
<td>$38.00</td>
<td>22mm potentiometer with 10kΩ resistance, ±10%. Nominal voltage: 250V. Rated dissipation: 2W at 25°C. Temperature range: -40°C to 70°C. Black handle. Connection type is screw terminal, 3-pole, 22-14 AWG.</td>
</tr>
<tr>
<td>ECX2640</td>
<td>pkg. of 1</td>
<td>$3.50</td>
<td>22mm legend plate for potentiometer with 0% to 100% marking, 50mm square. 50 x 50 x 1mm with 24.5 mm cutout.</td>
</tr>
</tbody>
</table>

Dimensions: mm [inches]

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For accessories, see 22mm Metal Pilot Device Accessories in this section.
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.

### GCX Series 22mm Plastic Pilot Devices Specifications

#### Pushbuttons and selector switches

- **Dimensions:** mm [inches]
  - PANEL THICKNESS: 1-6 mm
  - Dimensions: mm [inches]
  - PANELL THICKNESS: 1-6 mm

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

- **Dimensions:** mm [inches]
  - PANEL THICKNESS: 1-6 mm
  - Dimensions: mm [inches]

#### Mounting

- **Dimensions:** mm [inches]
  - Ø22.5 [Ø0.89]
  - 40.0 [1.57]
  - 30.0 [1.18]

#### Typical Wiring

- Normally Open: 4
- Normally Closed: 2
- x1: Normally Closed
- x2: Indicator

### Specifications

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

### Physical Specifications

<table>
<thead>
<tr>
<th>Standards Reference</th>
<th>CEI EN 60947-5-1, CSA C22-2 n.14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>UL File E189258, IMM (where specified)</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Fiberglass reinforced thermoplastic</td>
</tr>
<tr>
<td>Contacts Material</td>
<td>Silver</td>
</tr>
<tr>
<td>Protection Degree</td>
<td>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.)</td>
</tr>
<tr>
<td>Electric Shock Protection</td>
<td>IEC 536, Class II</td>
</tr>
<tr>
<td>Temperature Ratings</td>
<td>Storage: -40°F to 80°F (-40°C to 176°F) / Operating: -25°F to +70°F (-13°C to 158°F)</td>
</tr>
<tr>
<td>Working Positions</td>
<td>All working positions are allowed</td>
</tr>
<tr>
<td>Mechanical Life</td>
<td>Pushbuttons, selector switches, joy stick switches: 1,000,000 operations / Emergency mushrooms and push-push pushbuttons: 300,000 operations</td>
</tr>
<tr>
<td>Positive Opening Operation</td>
<td>(according to IEC 947-5-1) / All functions incorporating an NC contact are positive opening operation</td>
</tr>
</tbody>
</table>

### Electrical Specifications

- **Rated Thermal Current (contact block):** 6300, 0300 (Refer to E22 Series mounting/contact rating section for details)
- **Rated Insulation Voltage:** Ul 600V according to CEI EN 60947-5-1; 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, 3x38l 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 END1 (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 / DC15 (Control of DC electromagnetic loads) / 24 volts DC at 1.5 amps / 110 volts DC at 0.5 amps

*Note: Recommended, not supplied

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number’s web page.

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