### Description

The PC-102 is a dual-channel switch that provides dual protection against seal failures and over-temperature in submersible pumping applications.

Both units have two form-C isolated output relays and two LEDs, which illuminate when each associated output relay is energized.

The sensitivity adjustment (4.7k-100kΩ) allows you to define the input impedance at which the output relays will change state. The sensitivity for the over-temperature detector can be set to 4kΩ with use of the DIP switches.

This unit may not be compatible with Flygt pumps.

### Features & Benefits

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finger-safe terminals</td>
<td>Meets IEC 61000 safety requirements</td>
</tr>
<tr>
<td>Compact design for DIN</td>
<td>Allows flexibility in panel installation</td>
</tr>
<tr>
<td>rail or surface mount</td>
<td></td>
</tr>
<tr>
<td>LED Status Indicator</td>
<td>Visual indication of relay engagement</td>
</tr>
<tr>
<td>Two input channels</td>
<td>Flexibility for pump-up/pump-down or two-channel switch applications</td>
</tr>
</tbody>
</table>

### Specifications

**Input Characteristics**

- **Frequency**: 50/60Hz

**Functional Characteristics**

- **Probe Sense Voltage**: 5vdc pulsed
- **Sensitivity**: 4.7k-100kΩ
- **Sensitivity (for temp)**: Selectable 4kΩ with DIP switches
- **Input Logic**: Direct or inverted
- **Debounce Time Delay**: 0.5 or 2 seconds

**Output Characteristics**

- **Relay Output Rating**: (2 Form C isolated)
  - **Pilot Duty**: 180VA @ 120VAC, C150
  - **General Purpose**: 5A @ 240VAC

**General Characteristics**

- **Temperature Range**: -20° to 55°C (-4° to 131°F)
- **Maximum Input Power**: 2 W
- **Depluggable Connector**: Phoenix Contact-Series MSTB plugs
- **Output Relay Status Indicators**: LEDs
- **Terminal Torque**: 4.5 in.-lbs.
- **Wire range**: 12-20 AWG
- **Standards Passed**
  - Electrostatic Discharge (ESD): IEC 61000-4-2, Level 3, 8kV air
  - Radio Frequency Immunity (RFI): IEC 61000-4-3, Level 3, 10V/m
  - Fast Transients: IEC 61000-4-4, Level 3, 4kV input power
  - 2kV inputs/outputs

**Safety Marks**

- UL: UL508 (File #E68520)

**Dimensions**

- **H**: 88.9 mm (3.5”); **W**: 52.93 mm (2.08”);
- **D**: 59.69 mm (2.35”)

**Weight**

- 0.9 lb. (14.4 oz., 408.23 g)

**Mounting Method**

- 35mm DIN rail or Surface Mount (#6 or #8 screws)