PC-102 SERIES

Dual Seal-Leak Detector or Seal-Leak & Over-Temperature Detector

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 4k Ohms with use of the DIP switches.

This unit may not be compatible with Flygt pumps.

Features & Benefits

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

**Input Characteristics**
- Frequency: 50/60Hz
- 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: 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
- 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, 6kV contact, 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)

Ordering Information

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<tr>
<th>MODEL</th>
<th>LINE VOLTAGE</th>
<th>DESCRIPTION</th>
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<tr>
<td>PC-102CICI-DL</td>
<td>120VAC nominal</td>
<td>Dual seal-leak detector uses inputs to sense seal failures and energize the output relay. Input logic direct or inverted is DIP switch selectable</td>
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<tr>
<td>PC-102CICI-LT</td>
<td>120VAC nominal</td>
<td>Seal-leak and over-temperature detector uses one input to sense seal failures and the temperature input to detect motor overheating. Configurable to suit various probes. Seal input logic direct or inverted, plus over-temperature trip reset automatic or manual, is DIP switch selectable</td>
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</table>

Wiring Diagram

PC-102CICI-DL

PC-102CICI-LT

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