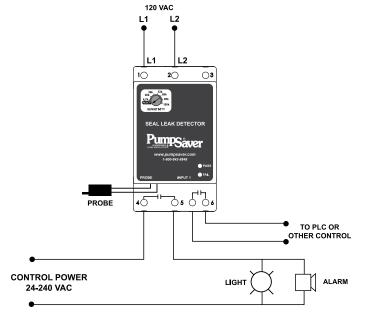
460-15-100-SLD

Single-Channel Seal-Leak Detector





Wiring Diagram



Description

The 460-15-100-SLD is a seal-leak detector to sense seal failures on submersible pumps. A microcontroller-based relay monitors the shaft seal of a submersible pump motor. A resistive probe is installed in the seal cavity. If water leaks into the pump, the resistance measured by the probe decreases. When the resistance drops below the sensitivity setpoint, the unit will trip and the relay contacts will change state. Output relay logic can be reversed by removing an external jumper. The unit will automatically reset when a fault is cleared.

Features & Benefits

FEATURES	BENEFITS
Unique probe protection logic	Probes are protected from scale build up through pulsed DC signal between the probes
Invertible relay logic	Allows flexibility to be used in pump-up and pump-down applications
LED status indicators	Provides visual indication of the relay status
2 relay contacts	Control independent loads on different circuits

Specifications

Input Characteristics

Control Voltage 110/120VAC nominal

50/60Hz (Note: 50Hz will increase all delay Frequency

timers by 20%)

Functional Characteristics

Sensitivity 4.7k-100kΩ **Probe Sense Voltage** 5vdc pulsed

Output Characteristics Output contact Rating

- (Two Form A - SPST)

Pilot Duty 360VA @ 240VAC **General Purpose** 8A @ 240VAC **General Characteristics**

Ambient Temperature Range

-40° to 70°C (-40° to 158°F) Operating -40° to 80°C (-40° to 176°F) Storage

Maximum Input Power

Class of Protection IP20, NEMA 1 (finger safe)

Relative Humidity 10-95%, non-condensing per IEC 68-2-3

Terminal Torque 4.5 in.-lbs. AWG 12-20 AWG

Standards Passed

Electrostatic Discharge (ESD) IEC 61000-4-2, Level 3, 6kV contact, 8kV air

Radio Frequency

Immunity, Radiated 150MHz, 10 V/m

Fast Transient Burst IEC 61000-4-4, Level 3, 3.5kV input power

and controls

Protection RelaysPump Controls and Liquid Level Controls



460-15-100-SLD

Surge

IEC 61000-4-5, Level 3, 4kV line-to-line;

Level 4, 4kV line-to-ground

ANSI/IEEE C62.41 Surge and Ring Wave Compliance

to a level of 6kV line-to-line

Hi-Potential Test Meets UL508 (2 x rated V + 1000 V for 1 min.)

Safety Marks

UL UL508 (File #E68520)

CE IEC 60947 Enclosure Polycarbonate

Dimensions H 88.9 mm (3.5"); **W** 52.93 mm (2.08");

D 59.69 mm (2.35")

Weight 1 lb. (16 oz., 453.59 g)

Mounting Method 35mm DIN rail or Surface Mount

(#6 or #8 screws)