

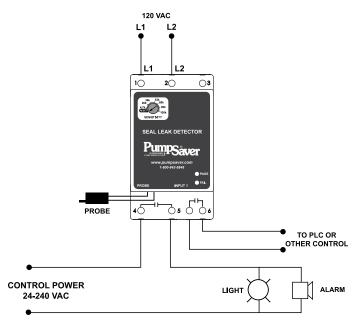
# 460-15-100-SLD

### 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
Frequency	50/60Hz (Note: 50Hz will increase all delay
	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	
Operating	-40° to 70°C (-40° to 158°F)
Storage	-40° to 80°C (-40° to 176°F)
Maximum Input Power	2 W
Class of Protection	IP20, NEMA 1 (finger safe)
Relative Humidity	10-95%, non-condensing per IEC 68-2-3
Terminal Torque	4.5 inlbs.
Wire	AWG 12-20 AWG
Standards Passed	
	IEC 61000-4-2, Level 3, 6kV contact, 8kV air
Radio Frequency	
	4501411 401//

Immunity, Radiated150MHz, 10 V/mFast Transient BurstIEC 61000-4-4, Level 3, 3.5kV input power<br/>and controls

460-15-100-SLD



#### Surge IEC

ANSI/IEEE

Hi-Potential Test Safety Marks UL CE Enclosure Dimensions

Weight Mounting Method IEC 61000-4-5, Level 3, 4kV line-to-line; Level 4, 4kV line-to-ground C62.41 Surge and Ring Wave Compliance to a level of 6kV line-to-line Meets UL508 (2 x rated V + 1000 V for 1 min.)

UL508 (File #E68520) IEC 60947 Polycarbonate H 88.9 mm (3.5"); W 52.93 mm (2.08"); D 59.69 mm (2.35") 1 lb. (16 oz., 453.59 g) 35mm DIN rail or Surface Mount (#6 or #8 screws)

# **Mouser Electronics**

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Littelfuse: 460-15-100-SLD