

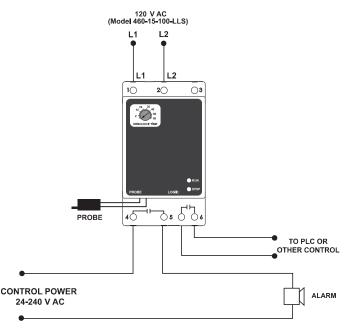
460-15-100-LLS

Single-Channel Liquid Level Sensor





Wiring Diagram



For dimensional drawing see: Appendix, page 510, Figure 10.

Description

The 460-15-100-LLS is a liquid level sensor to detect the presence of conductive liquids. A probe is mounted at the desired tank level and connected to the PumpSaver®. When the probe is submersed, the relay's output contacts will change state as soon as the debounce time expires. The adjustable debounce timer is intended to prevent nuisance actuating due to waves or splashing in the tank.

Relay logic can be inverted so the relay's output contacts change state when the probe is no longer submersed. This makes the unit versatile for use in pump-up and pump-down applications.

Features & Benefits

FEATURES	BENEFITS
Unique Probe Protection	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
Adjustable debounce timer	Prevents nuisance actuating caused by waves or splashing in the tank
LED status indicators	Provides visual indication of the relay status

110/120VAC nominal

timers by 20%)

100kΩ

5vdc pulsed

2-60 seconds

360VA @ 240VAC

-20° to 70°C (-4° to 158°F)

IP20, NEMA 1 (finger safe)

-40° to 80°C (-40° to 176°F)

8A @ 240VAC

2 W

4.5 in.-lbs.

12-20 AWG

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

Specifications

Input Characteristics Control Voltage Frequency

Sensitivity **Functional Characteristics Probe Sense Voltage**

Debounce Time Delay Output Characteristics Output contact Rating - (Two Form A - SPST) **Pilot Duty General Purpose**

General Characteristics

Ambient Temperature Range

Operating Storage **Maximum Input Power Class of Protection Relative Humidity Terminal Torque** Wire

Standards Passed

Electrostatic Discharge (ESD) IEC 61000-4-2, Level 3, 6kV contact, 8kV air **Radio Frequency** Immunity, Radiated **Fast Transient Burst**

150MHz, 10 V/m IEC 61000-4-4, Level 3, 3.5kV input power and controls

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

Protection Relays Pump Controls and Liquid Level Controls

460-15-100-LLS

Surge IEC

ANSI/IEEE

Hi-Potential Test Safety Marks UL CE Enclosure

Dimensions

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** 59.69mm (2.35") 1 lb. (16 oz., 453.59 g) 35mm DIN rail or Surface Mount (#6 or #8 screws)