# Littelfuse Expertise Applied | Answers Delivered

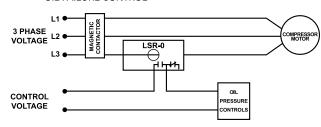
## LSR-0

## Self-powered load sensor/low-cost proof relay

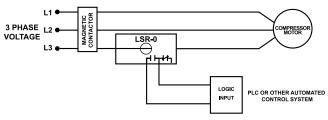


## **Wiring Diagram**

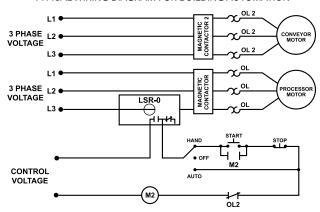
TYPICAL WIRING DIAGRAM FOR REFRIGERATION AND OIL FAILURE CONTROL



TYPICAL WIRING DIAGRAM FOR BUILDING AUTOMATION



TYPICAL WIRING DIAGRAM FOR BUILDING AUTOMATION



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### **Description**

The LSR-0 is a self-powered load sensor intended for use as a proof relay. It is used to verify that current is flowing as intended. It has a guaranteed 15A pull-in current and 2.5A drop-out current. Proof relays are typically used to interlock fans, compressors, motors, heating elements and other devices. The LSR-0 is self-powered, that is, it draws its power from the wire being monitored so it does not require separate control power wiring.

#### **Features**

- Self-powered
- Low cost proof relay
- Can monitor up to 135A loads

#### **Specifications**

Max Current Ratings 135A continuous

**Functional Characteristics** 

Turn-on Threshold Fixed, 15A (max.)\*
Turn-off Threshold 2.5A (min.)

**Power** Induced from conductor

**Isolation** 600VAC rms

**Output Characteristics** 

Relay Output Rating:
Pilot Duty 480VA @ 240VAC

General Purpose 10A

**General Characteristics** 

**Temperature Range** -20° to 70°C (-4° to 158°F)

Wire Size #12-24AWG
Hole Size 0.725" diameter
Terminal Torque 7 in.-lbs.

Safety Marks

CSA, CSA-NRTL/C (File #46510)

CE

**Dimensions H** 42.42 mm (1.67"); **W** 58.42 mm (2.3");

**D** 90.43 mm (3.56") **Weight**0.35 lb. (5.6 oz., 158.76 g) **Mounting Method**Four #6 screws 3/4" in length

\*Conductors may be looped for smaller motor applications.

Caution: This product should not be relied upon solely for safety of life or safety applications.