

Dual Seal Leakage Relay DSLR

MADE IN
THE U.S.A.

UL **US**
UL FILE #E101681

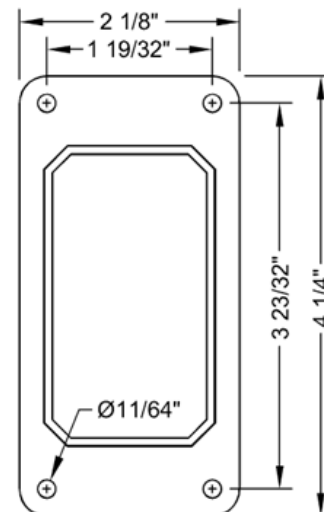
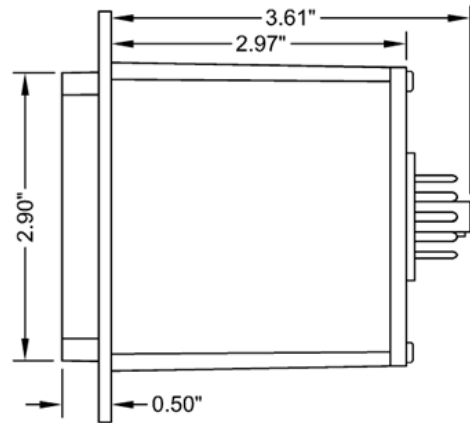
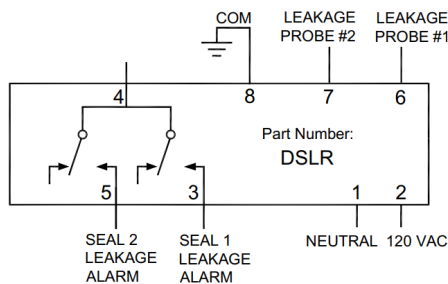


OPERATION

The Dual Seal Leakage Relay (DSLRL) provides Seal Leakage alarms for Submersible Pumps. The DSLRL is capable of monitoring two pumps simultaneously.

The DSLRL detects moisture inside a pump motor by using a low voltage AC signal to measure the resistance between the two Leakage Probes and the grounded motor housing. The potentiometer on the DSLRL is used to adjust the resistance necessary to produce a Seal Leakage Condition. A Seal Leakage condition is considered present when the amount of moisture in the motor causes the resistance between the Leakage Probes and ground to drop below the setting on the potentiometer. When this occurs and the Leakage Detection Delay expires, the DSLRL turns on the Leakage Indication LED corresponding to the Leakage Probe that identified the leak. The DSLRL then energizes the Leakage Alarm Relay(s) closing the contacts between terminals 3 and 4, or 5 and 4, depending upon which Leakage Probe identified the leakage condition.

The alarm trip point may be set by the following procedure: Isolate a Leakage Probe from either terminals 6 or 7. Connect a resistor, with the desired trip value, across terminal 6 and terminal 8 (Common) or terminal 7 and terminal 8 (Common). Slowly adjust the potentiometer to the point where the alarm turns on. Remove the resistor and reconnect to the Leakage Probe.

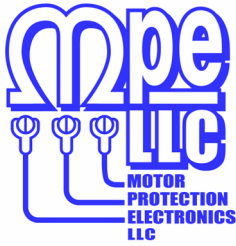


SPECIFICATIONS

Input Power:	120 VAC $\pm 10\%$, 7.0 VA max
Output Rating:	8A Resistive @ 120VAC
Operating Temp:	-20°C to +65 °C
Storage Temp:	-45°C to +85 °C
Leakage Sensor Voltage:	3.6 VAC $\pm 10\%$
Enclosure:	White Lexan
Base:	Phenolic

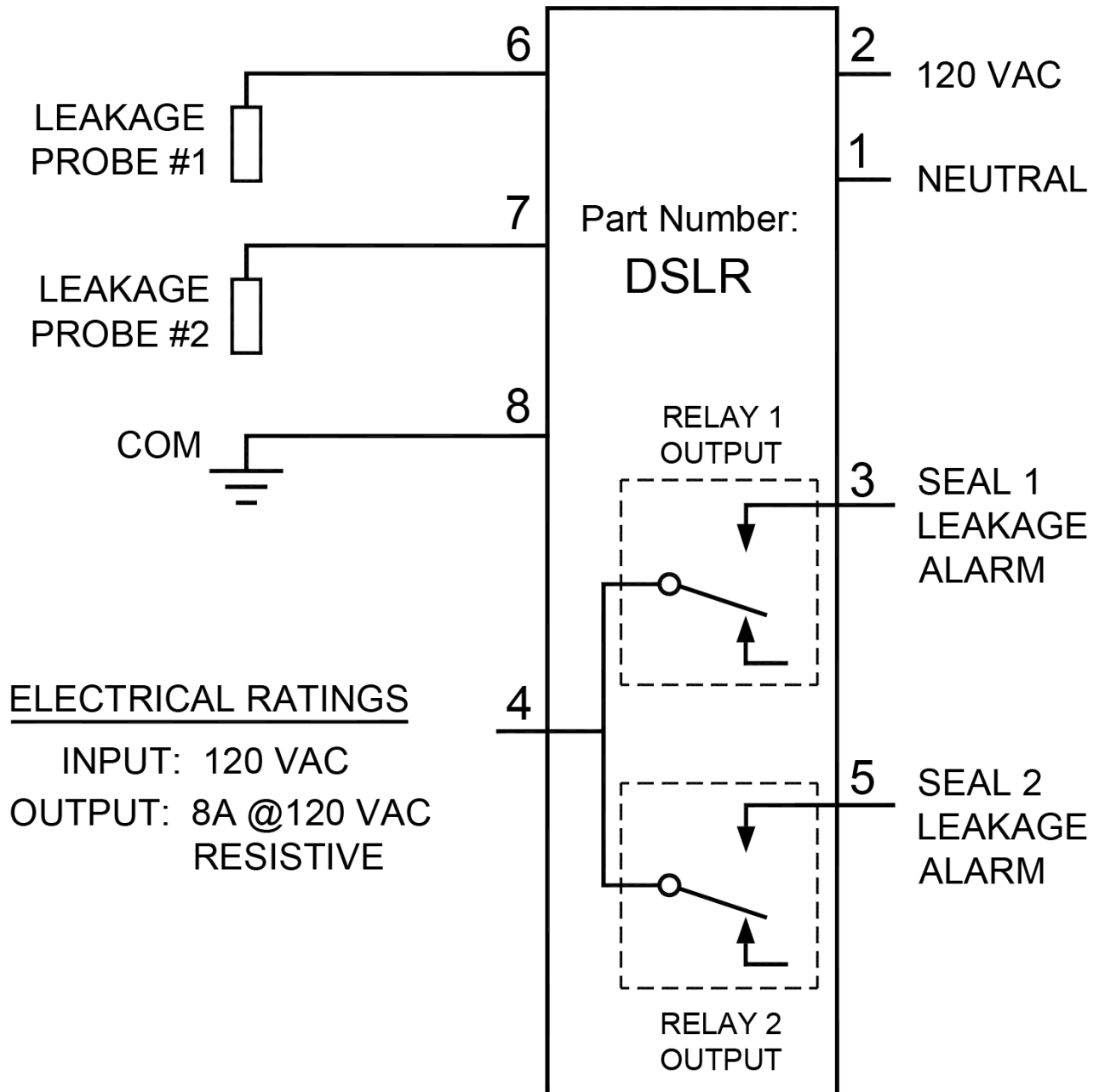
ORDERING INFORMATION

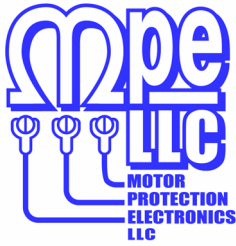
Part Number: DSLR



Dual Seal Leakage Relay DSLRL

CONNECTION DIAGRAM



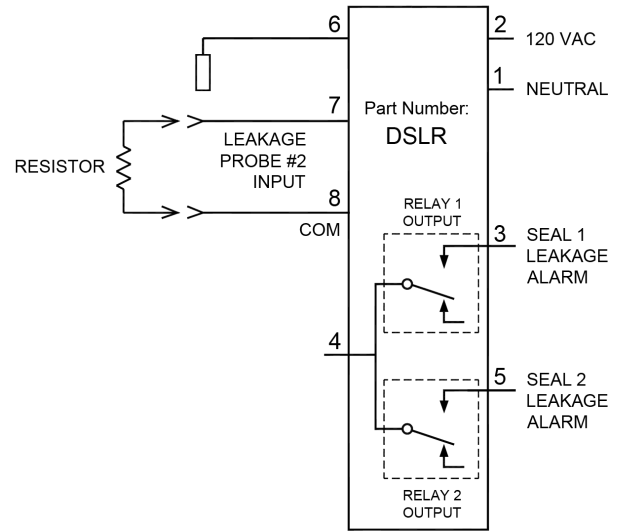
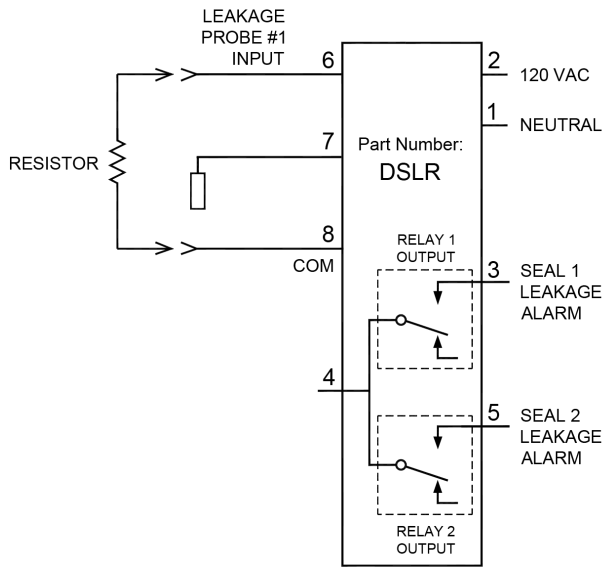


Dual Seal Leakage Relay DSLR

How to Adjust the Leakage Alarm Trip Point

The Leakage Alarm trip point may be set by the following procedure:

- 1) Temporarily Isolate a Leakage Probe from either terminals 6 or 7.
- 2) Connect a resistor, with the desired trip value, across terminal 6 and terminal 8 (Common) or terminal 7 and terminal 8 (Common), as shown below.
- 3) Slowly adjust the potentiometer to the point where the alarm turns on.
- 4) Remove the resistor and reconnect to the Leakage Probe Sensor wires.



Recommended Resistor Values:

For pump in <u>Typical Sewage</u> with <u>Conductance Type Leakage Probe Sensor</u> :	20K Ohm
For pump in <u>Storm Water</u> with <u>Conductance Type Leakage Probe Sensor</u> :	50K Ohm
For pump in <u>Typical Sewage</u> or <u>Storm Water</u> with a <u>Float Type Leakage Probe Sensor</u> :	20K Ohm