

LSRX / LSRX-C SERIES

Self-powered load sensor, low-cost
proof relay



Description

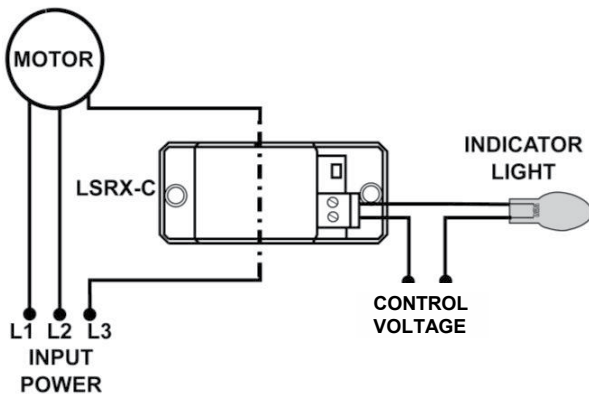
The LSRX/LSRX-C Series are AC current sensors designed to energize the output contact whenever 4.5 Amps or greater is present. The LSRX/LSRX-C Series is used commonly as an AC current proof relay to indicate if a motor is operating. It can also be used to interlock fans, compressors and motors; to indicate equipment status such as feed rates, tool wear, loss of prime on pumps, mixer viscosity and all types of current sensing conditions or to stage pump motors, chillers, or other machinery.

This device combines a current transformer (CT), transducer and high current output relay together to switch alarm circuits, contactors and most resistive or inductive loads. The LSRX/LSRX-C Series can perform the function of an auxiliary contact, yet has the advantages of universal application and isolation.

Features & Benefits

FEATURES	BENEFITS
Self-powered	Eliminates need for separate control voltage. Draws power from wire being monitored
Quick-connect terminals	Saves time at installation
LED indication	Visual indication of relay status
Built in current sensor will monitor up to 200A loads	Eliminates the need for a stand alone current transformer and also provides isolation between the monitored and control circuits

Wiring Diagram



Accessories



Informer IR Kit-36 (36" infrared adapter cable)

Attaches to the face of the unit to provide remote diagnostics without opening the panel.

Ordering Information

MODEL	DESCRIPTION
LSRX	Fast-on terminal
LSRX-C	Depluggable screw terminals
LSRX-OEM	Fast-on terminals, 10 pack

Specifications

Input Characteristics

Operating Current	5-200A Continuous
Minimum Pull-in Current	4.5A (typical), 7.0A (max)*
Power	Induced from AC conductor

Output Characteristics

Relay Output Rating (SPST - Form A)	
Pilot Duty	480VA @ 240VAC, B300
General Purpose	5A @ 240VAC
Electrical Life	1x10 ⁵
Mechanical Life	1x10 ⁷
Maximum Conductor Diameter	0.7 in.
Output Terminals	
LSRX	0.25" quick-connect fast-ons
LSRX-C	depluggable screw terminals
Torque Rating	3.0 in.-lbs.

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General Characteristics

Temperature Range:

Operating -20° to 70°C (-4° to 158°F)

Storage -40° to 80°C (-40° to 176°F)

Hole Size 0.72" diameter

Wire Size 12-26 AWG

Output Relay Status Indicator LED

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

Standards Passed

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

Fast Transient Burst IEC 61000-4-4, Level 3, 2kV power,
1kV input/output

Surge

IEC 61000-4-5, Level 3, 2kV line-to-line;
2kV line-to-ground

Safety Marks

UL UL508 Recognized (File #E68520)

CE IEC 60947

Dimensions **H** 68.58 mm (2.7"); **W** 28.7 mm (1.13");
D 63.5 mm (2.5")

Weight 0.3 lb. (4.8 oz., 136.08 g)

Mounting Method Surface Mount

*Conductors may be looped for smaller motor applications.