Low Voltage Monitor AC/DC Shunt Relay

LVM/P

Specifications

Electrical

Supply Voltage: 120 or 240 VAC, 50/60Hz
Sense Ranges:
75mV = 5 to 75mV AC/DC
400mV = 25 to 400mV AC/DC
4.5V = 250mV to 4.5V AC/DC
26V =1.4V to 26V AC/DC
150V =10V to 150V AC/DC
Hysteresis: 4% AC input, DC 0%
Signal Impedance: 20KΩ minimum
Decreasing Voltage Delay: 0.75 Sec. Typ.
Increasing Voltage Delay: 1/4 of Decreasing
Frequency: DC to 400 Hz
Max. Continuous Sense Voltage:
200V Max. 5 -75mV
600 Volts all Others
Output Rating @ 25°C:
10 Amps @ 125VAC
5 Amps @ 250VAC,
1600VA Max. Resistive Load
Power Consumption: 3W

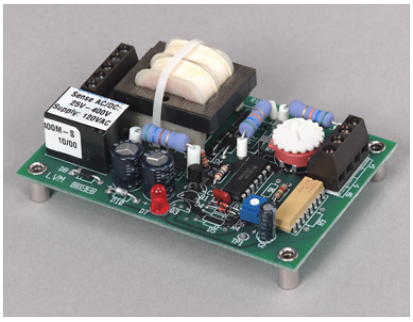
Physical

Mounting: Surface, #6 Screw
Termination: Terminal Block
Packaging: Open circuit board
Weight: 6 Oz.

Ambient Temperatures

Operating: 0°C to 40°C
Storage: -40°C to 85°C

Consult Factory for Other Options:
DC Hysteresis
DC or AC Only Sensing
Frequency Compensation



- 5mV to 150V AC/DC
- 600 VAC Overvoltage
- 10 Amp Contact NO/NC
- Noise Filter
- Nusance Delay
- Normal or Reverse Operation
- Compact Design
- Low Cost

Ordering Information

LVM -1- 400M- S

R-K Model

Options
M - Signal AC/DC, Non-Polarized
P - Signal DC Only, Polarized

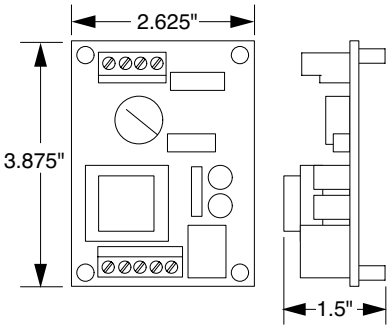
Operation
_ - Standard
R - Reverse

Delay Time
S - 0.75 Sec. Standard
F - 0.10 Sec.
L - 1.50 Sec.

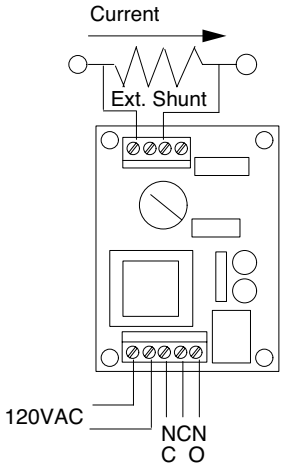
Sense Range
75mV = 5 to 75mV
400mV = 25 to 400mV
4.5V = 250mV to 4.5V
26V = 1.4V to 26V
150V = 10V to 150V

Supply Voltage
1 - 100 -125 Volts AC
2 - 200 - 250 Volts AC

Dimensions



Connections



Operation

AC/DC Shunt
Voltage Sensing Relay
The supply voltage must be provided to the LVM continuously. While the LVM will pick-up and drop-out based on the voltage set point, the voltage sensing inputs will accept up to 600 volts without damage. With no voltage on the voltage sensing input, the internal relay is energized, transferring the output contacts. When the sensed voltage exceeds the set point, the output relay will de-energize. With no supply voltage the output relay is de-energized. Hysteresis and a time delay prevent rapid cycling of the output relay.