AC Current Sensor

Model 10343

DESCRIPTION

Model 10343 is a small, AC current switch. It is designed to detect current on loads that are controlled using pulse width modulation . The 10343 detects current and the output remains low as long as a pulse is detected every 500ms. The output is delayed 600ms when going from low to high, but is fast turning on. Typically 5ms. The output is isolated from the lines being monitored. Monitored lines pass through a half inch hole in the unit. The output changes from high to low on trip. There is a single turn potentiometer for trip adjustment. The 10343 has an LED indicating output trip that is fast response. LED is on for pulse detection.

SPECIFICATIONS	
Sensing Ranges	Less than 1 A to 25 A
Trip Point	Adjustable - Nonlinear (higher potentiometer resolution at lower current ranges)
Adjustment Direction	Counterclockwise – Lower Current Clockwise – Higher Current
Sensor Frequency Range	50 to 60 Hz AC
Operating Voltage	10 to 35 VDC
Operating Current	.9 mA @ 10V 2.6mA @ 24V 4 mA @ 35V
Temperature Range	-20°C to 85°C
Maximum Wire Size	7/16”
Dimensions (L x W x H)	1.5 x 1.3 x 1.25 inches
Connections	6-32 Screw Terminals (3)
Output Resistance	5.8 Ohms @ 125°C
Output Type	Normally High, Open FET
Output OFF Delay	600 ms
Output & LED ON Delay	5 ms
Output Maximum Current	200 mA
Output Maximum Voltage	Zener Protected to 35V
Typical Hysteresis @ 24VDC	75 mA below 1A 2 A @ 25 A

FEATURES

- Encapsulated to prevent environmental and physical damage
- Solid-state
- Accommodate wires up to 1/2 inch
- Output is isolated from monitored lines
- Small size
- LED Indicator and single turn Potentiometer for easy trip point adjustment

APPLICATIONS

- Motor Status
- Over Current Status
- Other Loads Status
- Automotive / RV
- Fans and Blowers
- Ovens and Heaters
- Lamps
- Industrial Process Status

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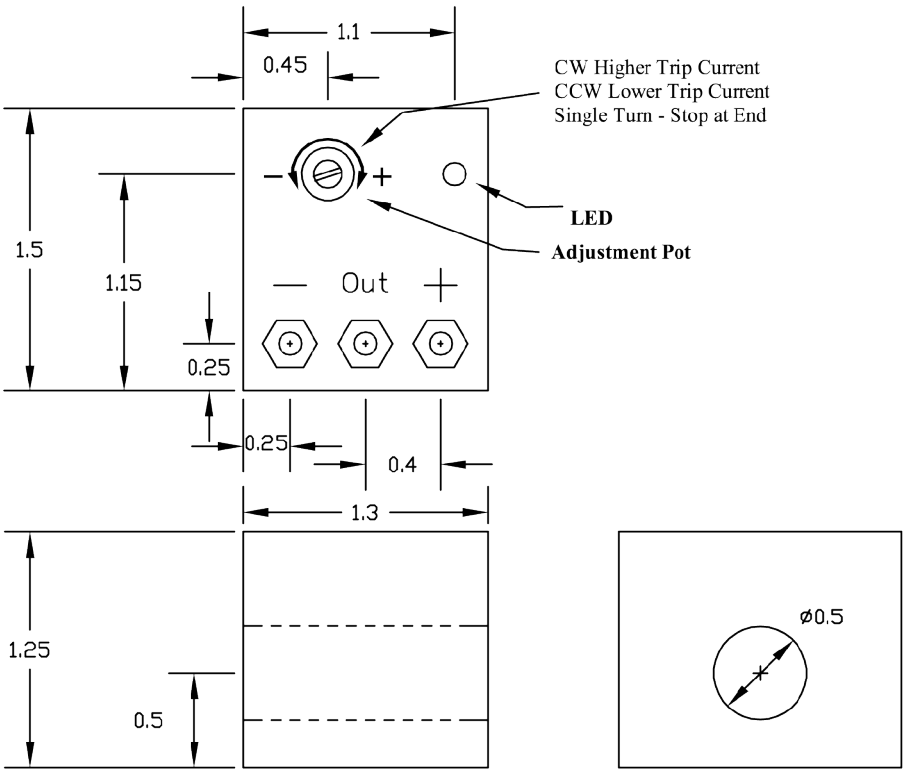
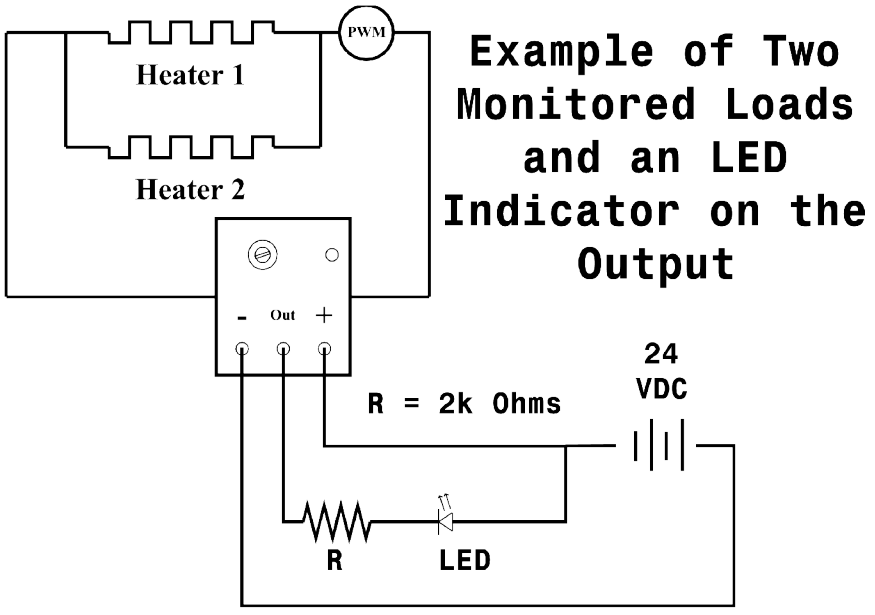
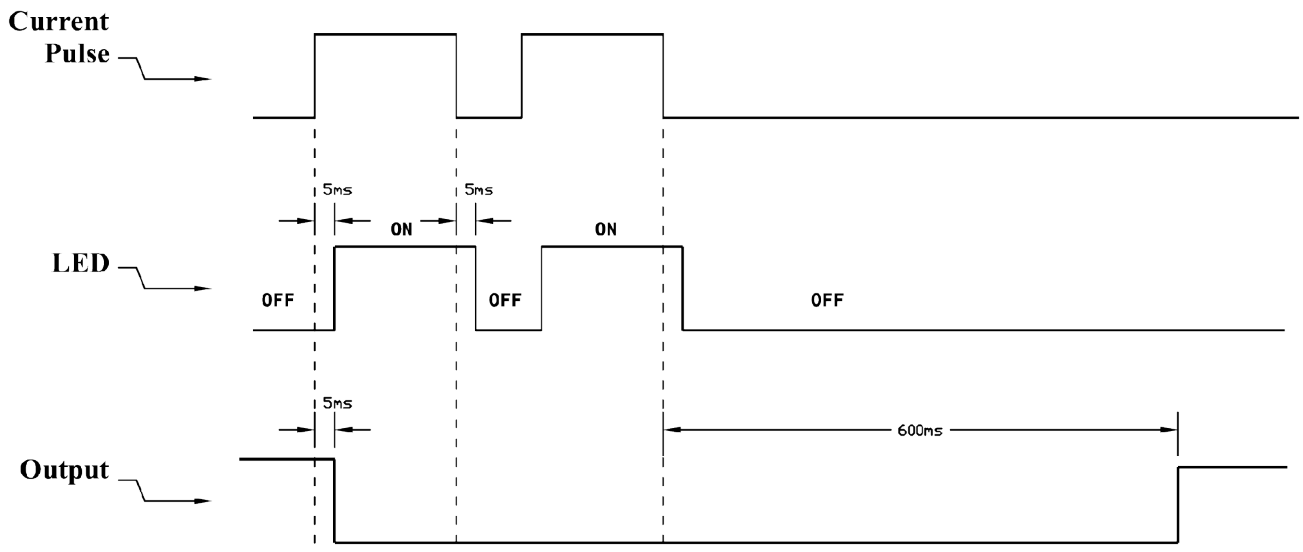




Example of Two Monitored Loads and an LED Indicator on the Output


Current
Pulse
5ms
5ms
ON
ON
LED
OFF
OFF
OFF
5ms
600ms
Output