PHENIX

Preliminary

AC Current Switch Box

Model 10623

Low Current Sensing and Fast Switching

DESCRIPTION

Model 10623 is an electrical box that can monitor the current on one outlet and switch another outlet. The trip point is adjustable with a single turn potentiometer. It has a 6 foot cord. Different models allow different sensing ranges from 0.5A to 20A. The “on to off” and “off to on” times are less than 100ms. The trip point of the switch is continuously adjustable.

SPECIFICATIONS	
Sensing Range	0.5A to 5A, 1A to 10A, 2A to 20A
Max. Current through Sensor	20A limited by wire size
Sensor Frequency Range	50-60 Hz
Trip Point	Adjustable (single turn pot)
Operating Temperatures	-20°C to 85°C
Operating Voltage	120VAC
Dimensions (L x W x H)	4 ½ x 4 ½ x 2 ½ (Box Size)

FEATURES

- Sensor is encapsulated to prevent environmental and physical damage
- Adjustment range .5 - 20 A
- Easy to install and use.
- Standard 120VAC electrical outlets
- Rugged Industrial Design

APPLICATIONS

- Industrial Process Control
- Motor Control
- Protects motors
- Increases Motor Life
- Pumping
- Irrigation
- Conveyors
- Loaders
- Fans and Blowers
- Ovens and Heaters
- Waste Management
- Material Handling
- Heating, AC Control
- Environmental Control
- TV and audio equipment controls

ORDERING		
Series	# of Sensors	Sensing Ranges
10623	A → On on Trip	1 → 0.5-5A
	B → Off on Trip	2 → 1-10A
		3 → 2-20A

Call for custom units with fixed trip points, on and off delays, or switching logic

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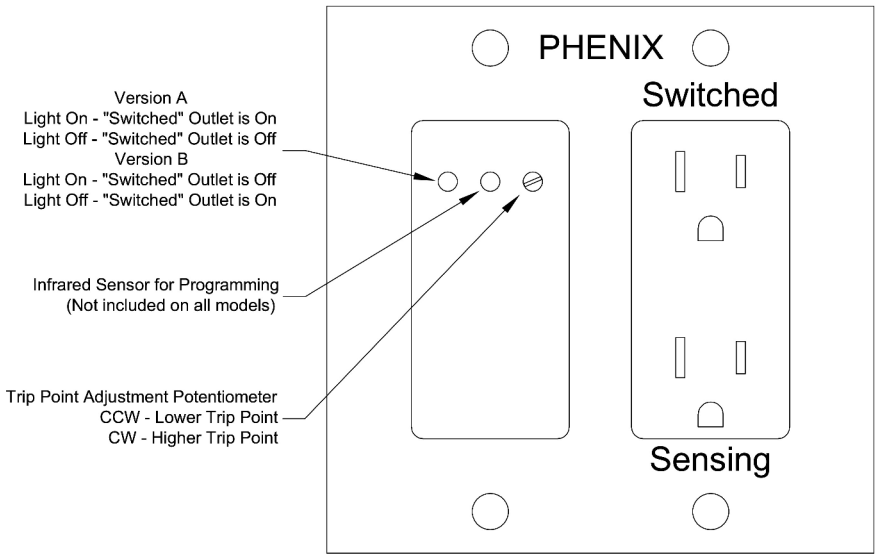

Setup

Turn the adjustment fully CW. Plug the device you want to monitor into the “Sensing Outlet.” Put the device into the off or standby mode. Slowly turn the adjustment CCW until the light turns on. Next, turn the adjustment CW a small amount until the light turns off. The current sensor is now setup. Turn the device on and off to verify that the current sensor is operating correctly. See Operation section.

If the current sensor light does not turn off when the device is off, then turn the adjustment CW a small amount.

If the current sensor light does not turn on when the device is on, then turn the adjustment CCW a small amount.

Operation

For version A, the “Switched” outlet will turn on when the current on the device plugged into the “Sensing” outlet is above the trip point. When the current is below the tip point the “Switched” outlet will turn off.

For version B, the “Switched” outlet will turn off when the current on the device plugged into the “Sensing” outlet is above the trip point. When the current is below the tip point the “Switched” outlet will turn on.