Timing Mode: **DELAY AFTER SENSE**
Category: **CURRENT SENSOR**
Series: **CS**

AIROTRONICS Timers and Controls

CURRENT SENSOR with RELAY OUTPUT, 10-20 AMPS

CS Current Sensor

The CS is an over or under current sensing control. Toroidal sensing means no break in the power wiring.

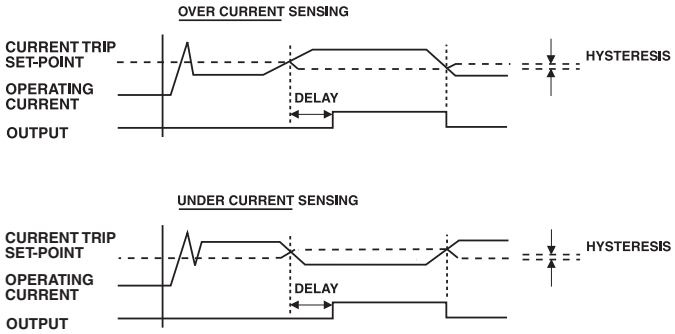
The combination of the over current LED, current adjustment, and percentage trip adjustment provides easy and accurate setting.

CS can handle loads up to 20 amps with time delays up to 100 secs.

Sense Mode

When the sensed current increases above or falls below the setpoint, the time delay will start.

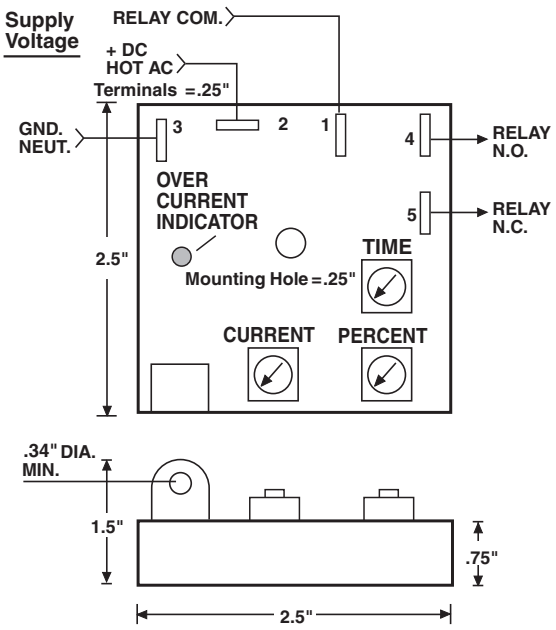
At the end of the delay, the output will be energized.



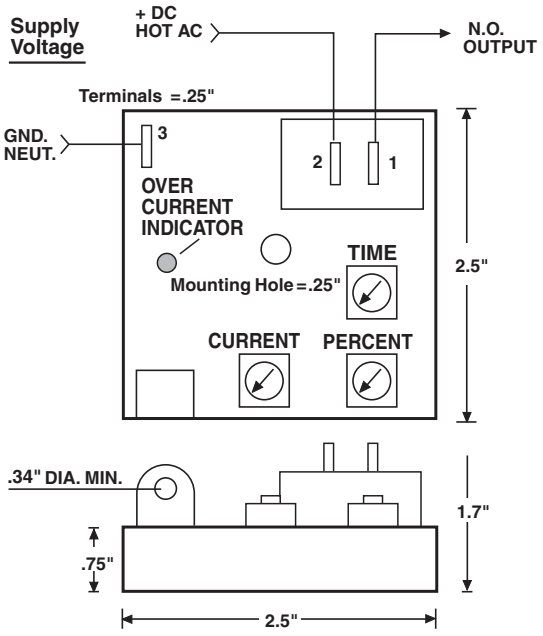
FEATURES

- **Over current and under current sensing**
- **Toroidal sensing provides complete isolation between sensed current and control circuit**
- **Easy setting of trip point with unique combination of LED indicator, current adjustment and percentage potentiometers.**
- **Can switch up to 20 amps (1.5HP)**
- **Totally encapsulated for protection from harsh environments**
- **Single screw mounting**
- **Transient and polarity protected**
- **No heat sinking required**
- **CMOS time delay**
- **100% Operational testing before shipping**
- **RoHS compliance available**

BASIC WIRING AND DIMENSIONS



10 Amps



15 & 20 Amps

SPECIFICATIONS

Input Voltage: +20%/-10%
VDC: 12 or 24
VAC: 24, 120, 230, 50/60Hz

Time Delay:
Timing Mode: Delay After Sense
Type: Digital CMOS
Time Range: 0.1 second to 10 seconds (adjustable)
1 to 100 seconds (fixed)

Repeatability: ±0.5%

Setting Accuracy: ±5% or 50 ms., whichever is greater

Reset Time: 100 milliseconds

Relay Life Expectancy:
Mechanical: Up to 10 million operations
Electrical: 100,000 operations at max. load

Protection: *Polarity Protection:* All DC units have reverse polarity protection
Transient Protection: 18 joules
Dielectric Strength: 1800V RMS 60Hz

Temperature Ranges: *Storage:* -40°C to +85°C
Operating: -25°C to +65°C

Sensor: Toroid–Through hole wiring
Current Range: 0.5 to 20 amps
Frequency: 50/60Hz
Trip Point Hysteresis: 5% typical
Trip Point Drift vs Temperature: ±2% typical, ±5% max
Fixed Setting Accuracy: ±5%

OPTIONS SELECTION

Mode of Operation	Series	Relay Common	Input Voltage	Current Sensing	Fault Indic.	Hysteresis	Time Delay	Time Adj. Method	Current Set Point	Current Adj. Method	Percent Adj.	Outputs
Current Sensor	CS	**B** = Hot * = Isolated	**1** 120 VAC **2** 230 VAC **3** 24 VAC **4** 24 VDC **7** 12 VDC	**O** = Over **U** = Under	**F** = Yes * = No	* = 0 **H** = 5%	**VARIABLE TIME PERIOD** **010** .1 to 10 secs **FIXED TIME PERIOD** Specify time in full seconds from 1 to 100	**C** = Fixed **A** = Integral knob	**VARIABLE SET POINT** **020** 0.5 to 20 secs **FIXED SET POINT** Specify amps from 1 to 20 amps	**C** = Fixed **A** = Integral knob	* = 0 **P** = 20%	**H** 10 Amps **JN** 15 Amps (1.0 HP) **J** 20 Amps (1.5 HP)

Specifications subject to change without notice.

AIROTRONICS Timers and Controls ACT
A division of Pelco Component Technologies
2747 Route 20 East, Cazenovia, NY 13035
315-655-8476 ■ www.airotronics.com