

38420-MI

12VDC Current HI/LO Sensor

Sensor board for monitoring Over and Under current flow in a 12VDC load. Isolated Relay contacts provide output opportunities for alarms, fans, load control. Adjustable High & Lower Limits
Selectable Modes for the relay output.

NOTE: Load is Connected Between IN+ & IN- Terminals. DC- (Minus) and IN - Are Common. Load Power Is Supplied By The Board . Removing Power From Board; Removes Power From Load.

Power: 12VDC

Standby Current: ~20mA

Load Current: 10A Max

Measurement Range: DC 0~10A

Accuracy: 0.01A(10mA)

Display: 3 digit 0.36in Red LED

Relay: SPDT

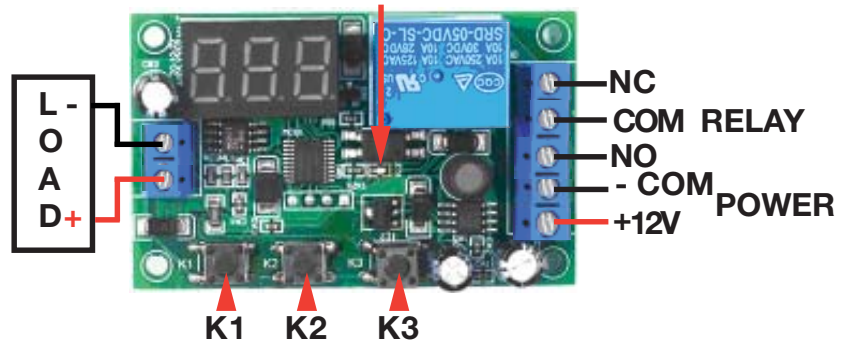
Rated: 10A @ 250/125VAC/30VDC

L: 65mm (2-9/16") **W:** 40mm (1-9/16")

H: 20mm (3/4") **WT:** .06



RELAY CLOSED LED



I1 Lower Limit Factory=0.05 (50mA)

I2 Upper Limit Factory=0.10 (100mA)

Button Description:

K1: Mode Selection;

K2: "+"/ Increase or Select Sub Function

K3: "-"/ Decrease or Select Sub Function

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Setup

Apply Power: Display shows the measured current

1st. Step: **Press and Hold K1**; Hold for more than 2 second. (prevents false adjustments).

Screen displays Present Mode: **P1x - P5x**; **K2** scrolls **P1 - P5**, **K3** selects **Pxx 1 or 2** alternately
Select Relay operation Mode (P1x - P5x) you want (SEE Table)

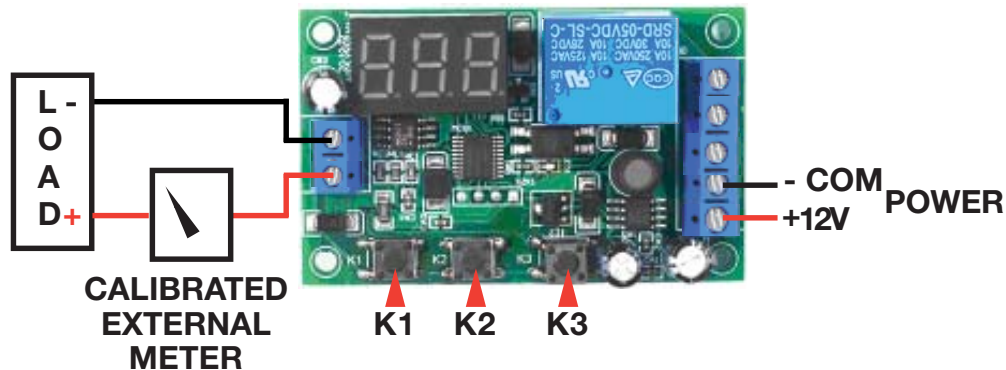
2nd. Step: **Short Press of K1**; Display flashes Preset setting of **I1(Lower Limit)**;
Pressing **K2** increases **I1**, Pressing **K3** decreases **I1**.

3rd. **Short Press of K1**; Display flashes: "Preset setting of **I2 (Upper Limit)**;
Pressing **K2** increases **I2**, Pressing **K3** decreases **I2**.

4th. **Short Press of K1**; The Displays shows the measured current; indicating board has entered the Operating (Measurement) mode.

Display ON/OFF

Press **K3** in Operating (Measurement) mode to alternate between the Display being ON or OFF.



Calibration:

Attach a accurate known Load & external current meter to IN+ & IN-.

Long press K2 in Operating (Measurement) mode Display will Flash.

Short pressing **K2** (Increase) or **K3** (Decrease) Adjust until Display equals External calibrated meter. Supports Fast set; Press & Hold K2 or K3.

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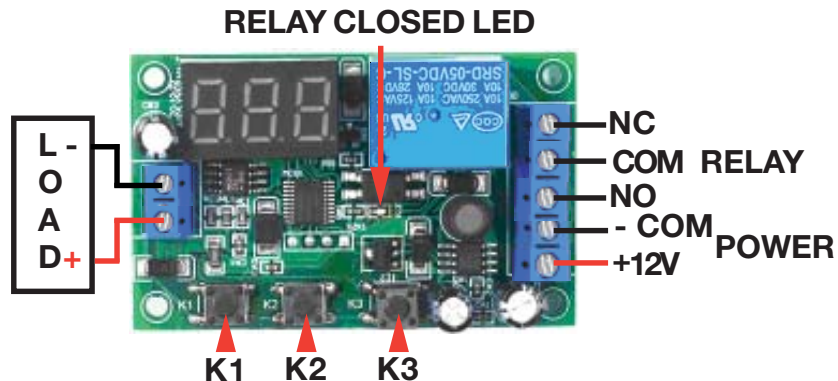


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Relay Operational Mode Table: Select at Setup

- P-11:** When the measured current is greater than **I1**, the relay closes; when the measured current is less than **I1** again, the relay is open
- P-12:** When the measured current is greater than **I1**, the relay closes; Relay stays closed until the board is powered off.
- P-21:** When the measured current is greater than **I2**, the relay closes; when the measured current is less than **I1**, the relay is open.
- P-22:** When the measured current is greater than **I2**, the relay closes; Relay stays closed until the board is powered off.
- P-31:** When the measured current is less than **I1**, the relay is closed; when the current is greater than **I2**, the relay is open.
- P-32:** When the measured current is less than **I1**, the relay closes; Relay stays closed until the board is powered off
- P-41:** When the measured current is between **I1** and **I2**, the relay is closed, and the relay is open in other cases.
- P-42:** When the measured current is between **I1** and **I2**, the relay closes; Relay stays closed until the board is powered off.
- P-51:** When the measured current is less than **I1** or greater than **I2**, the relay is closed, and the relay is open in other cases;
- P-52:** When the measured current is less than **I1** or greater than **I2**, the relay closes; Relay stays closed until the board is powered off.

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