

# 38281-RL

## AC Load Overload Protection Relay - 12VDC

Module with toroid sensor, Detects when the 110/220V AC current is too high and too Low. 4 Digit .36" LED display for current & Settings.

10 Programmable Modes: SEE PAGE 2  
Isolated SPDT Relay to control the load.

**Module Power:** 12VDC

**Idle Current:** < 15ma

**Detection Range:** 0~5AAC

**Resolution:** 0.01 (10mA)

**Accuracy:** 0.01A (10ma)

**Relay:** SPDT

**Contacts:** 10A @ 250/120VAC/28VDC

**Toroid Sensor:**

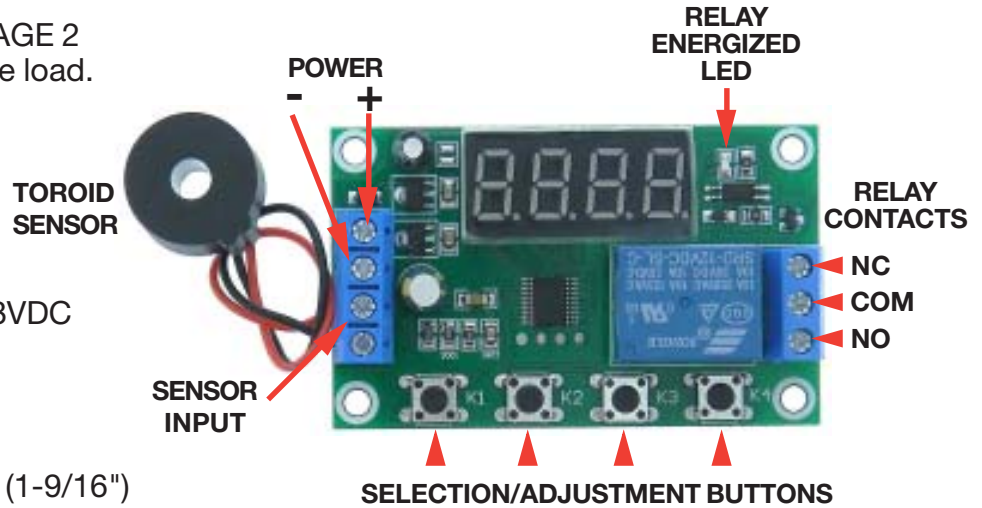
3/4" Outer Dia. x 3/8" Thick

3/16" Inner Dia, hole (for Wire)

Connections: Terminal Strips

**L:** 65.8mm (2-9/16") **W:** 40.5mm (1-9/16")

**H:** 20mm (11/16") **WT:** .09



### OPERATION

When power is on: Display shows measured current (Normal Mode)

Press & Hold Button **K1** for >1second:

The display shows Mode: **P11**: Button **K2** cycles through Modes P<sub>1x</sub> to P<sub>5x</sub>, Button **K3**: set sub Modes, P<sub>x1</sub> or 2 (P<sub>11</sub> or P<sub>12</sub> through P<sub>51</sub> or P<sub>52</sub>)

Press Button **K1** for the second time, the display flashes and shows: a Value, this is the threshold value of **I1**; Button **K2** increases **I1** (Increments of 0.01A), and Button **K3** decreases **I1** (Increments of 0.01A). (Holding either K3 or K4 Enters Fast Set operation.)

Press Button **K1** for the third time, the display flashes and shows: a Value, this is the threshold value of **I2**; Button **K2** increases **I2**, and Button **K3** decreases **I2**. (Hold for Fast Set)

Press Button **K1** for the fourth time, the display will show the measured current; Module has entered Normal Mode.

**Display Control:** Module in Normal Mode: Press Button **K4**: turns the display ON/OFF

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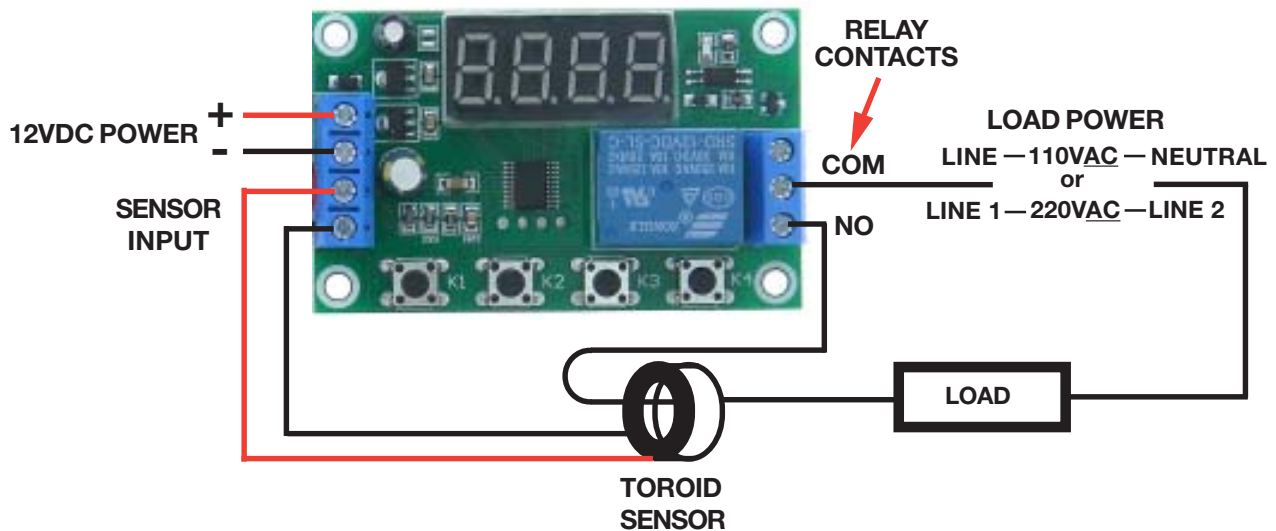
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### MODE SETUP

#### MODES

- P-11:** When the measured current is greater than Current setting **I1**, the relay closes; when the measured current is less than **I1** again, the relay opens.
- P-12:** When the measured current is greater than **I1**, the relay closes; and will remain closed until the module is powered off.
- P-21:** When the measured current is greater than **I2**, the relay is closed; when the measured current is less than **I1**, the relay is disconnected.
- P-22:** When the measured current is greater than **I2**, the relay will close; and will remain closed until the module is powered off.
- P-31:** When the measured current is less than **I1**, the relay closes; when the current is greater than **I2**, the relay opens.
- P-32:** When the measured current is less than **I1**, the relay will close; and will remain closed until the module is powered off.
- P-41:** When the measured current is between **I1** and **I2**, the relay is closed, If Outside **I1** & **I2** the relay is disconnected.
- P-42:** When the measured current is between **I1** and **I2**, the relay is closed; and will remain closed until the module is powered off.
- P-51:** When the measured current is less than **I1** or greater than **I2**, the relay is closed, and in other cases, the relay is open.
- P-52:** When the measured current is less than **I1** or greater than **I2**, the relay is closed; and will remain closed until the module is powered off.



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