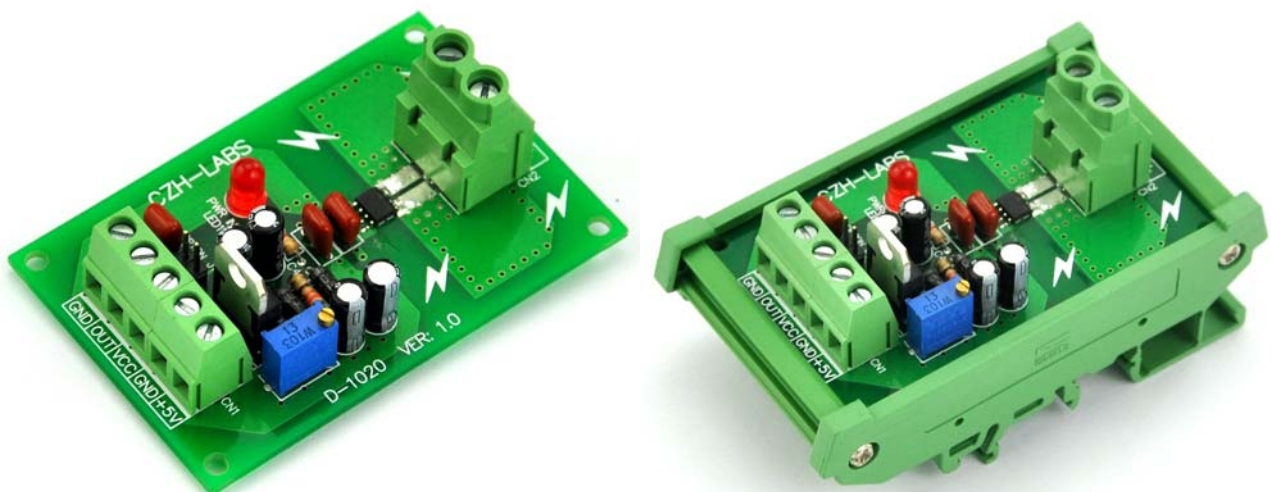


CZH-LABS Electronics-Salon

Model: D-1020 series

5A / 20A / 30A Current Sensor Module

Based on ACS712 Hall Effect-Based Linear Current Sensor IC



Features:

- The item provides economical and precise solutions for AC or DC current sensing in industrial, commercial, and communications systems. Typical applications include motor control, load detection and management, switched-mode power supplies, and overcurrent fault protection. The device is not intended for automotive applications.
- Optimized current range 5A, 20A or 30A version to choose.
- Output voltage proportional to AC or DC currents.
- Panel mount or DIN rail mount types to choose. DIN rail mount version can support width 35 / 32 / 15mm rails.

Electrical Parameters:

- Load Maximum Current: $\pm 5A$, $\pm 20A$ or $\pm 30A$ three version.
 - Load Frequency Bandwidth: DC ~ 80 kHz.
 - Minimum Isolation Voltage: 2.1 kV(RMS).
 - Sensitivity: 5A version ----- 185mV/A.
20A version ---- 100mV/A.
30A version ---- 66mV/A.
 - Operating Voltage: **Regulated 5VDC**, or 8 ~ 35VDC.
 - Operating Current: 20mA(max).
 - Load No Current Output Terminal Voltage: 2.5VDC. *
- * When the load current IP+ to IP-, sensing output voltage >2.5V. when the load current IP- to IP+, sensing output voltage <2.5V.
For example 20A version: 20A current from IP+ to IP-, output signal is 4.5V. 20A current from IP- to IP+, output signal is 0.5V.
- [Other more detailed electrical specifications, you can read Allegro ACS712 datasheet.](#)

Size:

- Panel mount version: 72.5 x 47.35 x 24mm (L x W x H)
- DIN rail mount version: 83 x 50 x 48mm (L x W x H)

Choose Version List:

1. MD-D1020/5A, panel mount, maximum $\pm 5A$ current.
2. MD-D1020/20A, panel mount, maximum $\pm 20A$ current.
3. MD-D1020/30A, panel mount, maximum $\pm 20A$ current
4. MD-D1020T/5A, DIN rail mount, maximum $\pm 5A$ current.
5. MD-D1020T/20A, DIN rail mount, maximum $\pm 20A$ current.
6. MD-D020T/30A, DIN rail mount, maximum $\pm 30A$ current.

Circuit Schematic:

