

CZH-LABS Electronics-Salon

Model: D-1085 series

50A / 100A / 150A Current Sensor Module

Based on ACS758 Hall Effect-Based Linear Current Sensor IC



Features:

- The item of current sensor module provides economical and precise solutions for AC or DC current sensing. Typical applications include motor control, load detection and management, power supply and DC-to-DC converter control, inverter control, and overcurrent fault detection.
- Optimized current range 50A, 100A or 150A 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: $\pm 50A$, $\pm 100A$ or $\pm 150A$ three version.
 - Load Frequency Bandwidth: DC ~ 120 kHz.
 - Isolation Voltage: 4800V AC.
 - Sensitivity: 50A version ----- 40mV/A.
100A version ---- 20mV/A.
150A version ---- 13.3mV/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 100A version: 100A current from IP+ to IP-, output signal is 4.5V. 100A current from IP- to IP+, output signal is 0.5V.
- [Other more detailed electrical specifications, you can read Allegro ACS758 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-D1085/50A, panel mount, maximum $\pm 50A$ current.
2. MD-D1085/100A, panel mount, maximum $\pm 100A$ current.
3. MD-D1085/150A, panel mount, maximum $\pm 150A$ current
4. MD-D1085T/50A, DIN rail mount, maximum $\pm 50A$ current.
5. MD-D1085T/100A, DIN rail mount, maximum $\pm 100A$ current.
6. MD-D1085T/150A, DIN rail mount, maximum $\pm 150A$ current.

Circuit Schematic:

