

Model CLSM-200LA **Closed Loop Hall Effect**

Description

The Model CLSM-200LA is a closed loop Hall effect current sensor that accurately measures DC and AC currents and provides electrical isolation between the current carrying conductor and the output of the sensor.

Features

- Low Cost
- Fast response
- High overload capacity
- Moistureproof, Shockproof
- Noncontact measurement of high current
- Measures DC, AC and impulse currents



Applications

- Variable speed drives for motors
- Welding Equipment
- Power Supply Equipment
- Measure and control system
- Over current protection
- Protection of power semiconductors

Electrical Specifications

CLSM-200LA

Nominal current (I _N)	±200 A
Current range	0 to ±250 A
Nominal output current (I _M)	100 mA
Turns Ratio	2000 / 1
Measuring Resistance (R _M)	0 to 20 Ω
Overall accuracy at 25°C	±0.5 % of I _N
Supply voltage (V _{dc}).....	±15 to ±18
Current consumption	15 mA + output current

Accuracy-Dynamic Performance

Zero current offset at 25°C	< ±0.2mA
Offset current temperature drift (0°C to +70°C) (1).....	< ±0.3mA
Linearity	better than ±0.1%
Response time	less than 1μs
di / dt	better than 70A/μs
Frequency range	DC to 150KHz (-3dB)

General Information

Operating temperature.....	-40°C to +85°C
Storage temperature	-40°C to +90°C
Package	flame retardant plastic case, UL94V-0
Isolation voltage	5kV/50Hz/1 min.
Output reference.....	To obtain a positive output on terminal M, input current must flow in the direction of the arrow (conventional flow)
Weight	38 grams
Mounting	Panel mount via 1 hole, 4.5 mm dia.
Aperture size (mm).....	10.2 x 20.2

Notes:

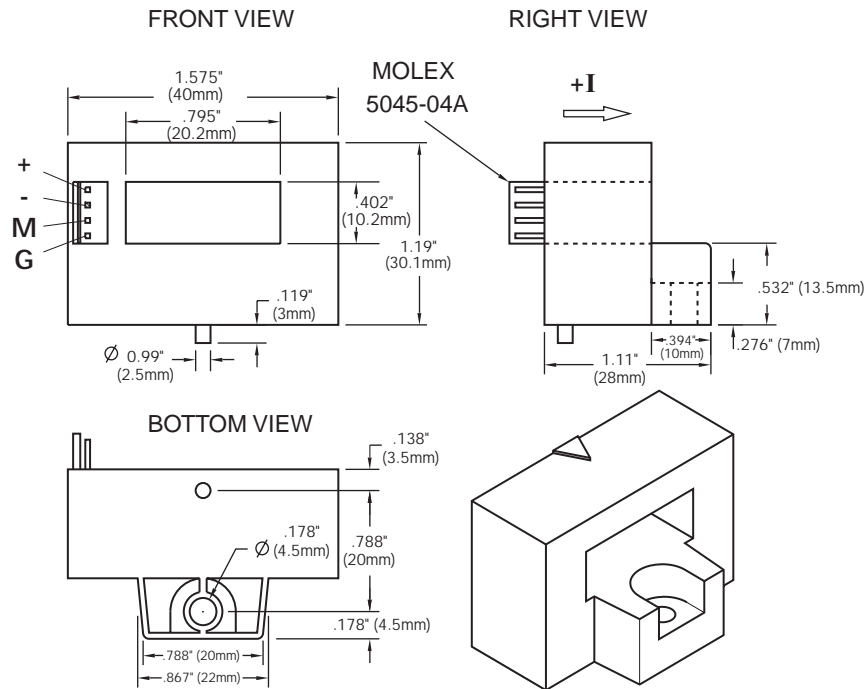
1. Excludes zero current offset
2. Busbar temperature should not exceed 100°C.
3. The dynamic performance is the best when the busbar fills the aperture.
4. Due to continuous process improvement, all specifications are subject to change without notice.

Mechanical Dimensions

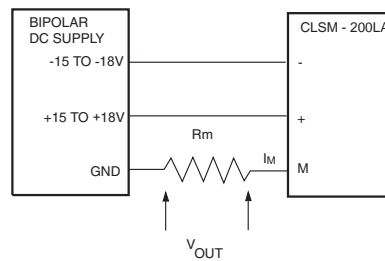
All dimensions are in inches (millimeters)

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Mechanical Dimensions



Connection Schematic



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