

CSHMB SERIES - DC CURRENT SENSOR

The CSHMB Hall Effect current sensor, with a galvanic insulation, is designed to measure DC current and is fully certified to DO-160. The output provides an accurate linear voltage signal versus measured current and has a full bidirectional scale range.



Applications

- Aerospace
- Military
- Rail
- Ground Vehicles
- High Reliability

Features

- Compact, lightweight design
- EMI and lightning protected
- Full scale range +/-50 to +/-800 amps
- No voltage drop on primary line
- Sine and Random vibration rated

Benefits

- Custom units available
- Unidirectional or bidirectional
- Single or differential output voltage
- Standard values : 100, 200, 400, 500, 800 amps
- Designed for direct mounting to bus bar assembly or bus bar contactor

Specifications

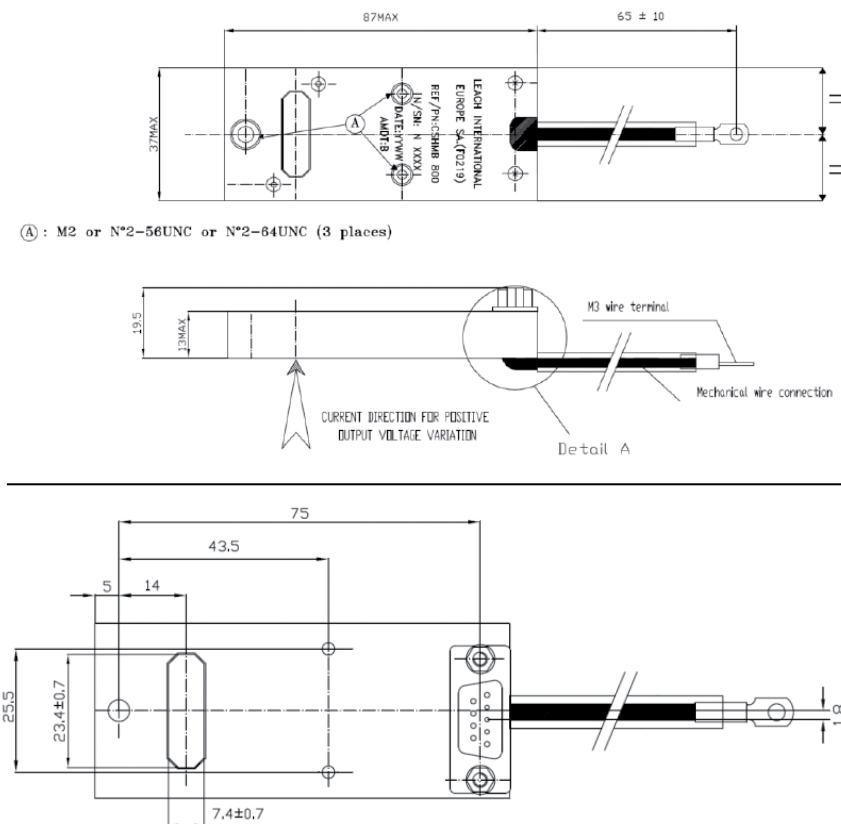
ELECTRICAL CHARACTERISTICS

Voltage supply range	16 to 32Vdc to MIL-STD-704
Consumption	< 40mA
Output current	< 10mA
Full scale differential voltage	- 4V to 4V
Reference voltage	+4.5V +/-20mV
Accuracy	4% over the temperature range (2.5% capability)
Dielectric strength	1000 Vdc

Environmental and Physical Data

Operating temperature range	- 40°C to + 75°C (- 55°C to + 105°C capability)
Shock (MIL STD 202 method 213)	30g / 11 ms
Salt spray (MIL STD 202 method 101)	96H
Humidity	240H
Altitude	15 000 m
Voltage spike	DO-160D sect 17 cat A
EMI	DO-160D sect 18, 19 & 20
Lightning	DO-160D cat 22 ca B2F2
Weight	90g max
Dimensions	87mm (3.42 ") x 37mm (1.45") x 13mm (0.51")

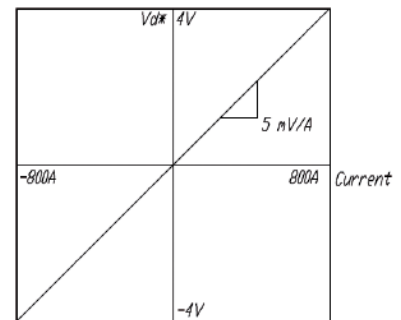
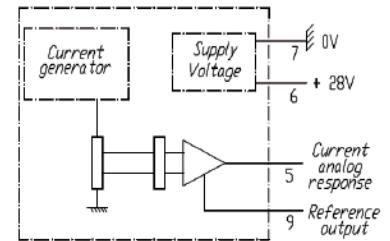
Configurations and Schematics



(A) : M2 or N°2-56UNC or N°2-64UNC (3 places)

ACCURACY TABLE

Temp (°F)	-65°F/-6°F	-4°F/+131°F	+133°F/+160°F
Temp (°C)	-54°C/-21°C	-20°C/+55°C	+56°C/+71°C
I (Amps)	± 800	±4 Amps ± 4%	±4 Amps ± 4%



Vd* = Differential voltage between Ref Output and Current Analg

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