



CSLT6B100



Actual product appearance may vary.

CSL Series miniature open-loop current sensor, 100 A sensed current, sink or source output, through-hole, operates on ac or dc current, bottom mount

Features

- ac or dc current sensing
- Linear ratiometric output
- Current sinking or sourcing output for interfacing flexibility
- No insertion loss
- Fast response time
- Compact size for applications with limited space
- Accurate, low-cost sensing
- Minimum energy dissipation
- Maximum current limited only by conductor size
- Built-in temperature compensation promotes reliable operation
- Operating temperature range -25 °C to 100 °C [-13 °F to 212 °F]
- RoHs compliant (lead-free)

Potential Applications

- Motor control in applications, HVAC and consumer tools
- Current monitoring of electronic circuits
- Overcurrent protection
- Ground fault detectors
- Robotics
- Industrial process control
- UPS and telecommunication power supplies
- Welding current monitoring
- Battery management systems in mobile equipment
- Watt meters
- Variable speed drives

Description

Honeywell's CSL Series miniature, open-loop current sensors incorporate our SS490 Series miniature ratiometric linear Hall-effect sensor (MRL). The sensing element is encapsulated in a printed circuit board-mountable plastic package. The combination of sensor and flux collector comprises the current sensor assembly. These sensors are ratiometric.

Product Specifications	
Product Type	Inductive Analog Current Sensor
Sensed Current Type	ac or dc
Sensed Current Range	± 100 A
Package Style	PCB right angle Mount
Output Type	Sink/Source
Sensitivity	15 mV/AT ± 2 mV /AT @ 5 Vdc
Supply Current	9 mA max.
Offset Voltage	Vs/2
Supply Voltage	4.5 Vdc to 10.5 Vdc
Offset Shift (%/ °C)	± 0.064
Response Time	3 µs
Operating Temperature Range	-25 °C to 100 °C [-13 °F to 212 °F]
Storage Temperature Range	-65 °C to 110°C [-85 °F to 230 °F]
Mounting	PCB on 3 pins
Pinout Style	3 pin
Availability	Global
Comment	AT = Amp * Turns (Characteristics based on Vs = 5 Vdc, Ta = 25 °C unless specified)
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Series Name	CSL