

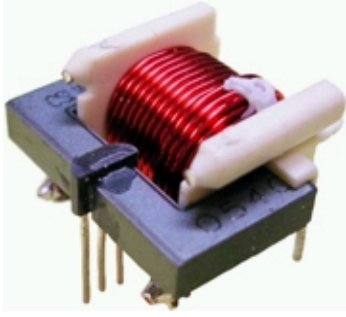


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CSLW6B1



Actual product appearance may vary.

CSL Series miniature wired open -loop current sensor, 1 A sensed current, sink or source output, through -hole, operates on ac or dc current, bottom mount

Features

Wired open-loop design with multiple turns for increased sensitivity
 ac or dc current sensing
 Linear ratiometric output
 Current sinking or sourcing output for interfacing flexibility
 Low 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 (leadfree)

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, openloop current sensors incorporate our SS490 Series miniature ratiometric linear Hall effect sensor (MRL?). The sensing element is encapsulated in a printed circuit boardmountable plastic package. The combination of sensor, flux collector, and wire coil comprises the current sensor assembly. These sensors are ratiometric.

Supporting Documentation

[Dimensions](#)

[Installation Instructions](#)

Product Specifications	
Product Type	In - circuit Analog Current Sensor
Sensed Current Type	ac or dc
Sensed Current Range	± 1 A
Package Style	PCB Bottom Mount
Output Type	Sink/Source
Sensitivity	1020 mV/AT ± 122 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
Coil Resistance @ 25 °C	0.16 ohms typ.
Response Time	3 μ s
Coil Turns	60
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 5 pins
Pinout Style	5 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

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