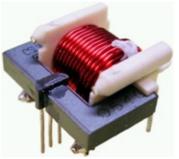


Honeywell Sensing and Control

CSLW6B200M

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Actual product appearance may vary.

CSL Series miniature wired open -loop current sensor, 200 mA sensed current, sink or source output, through -hole, operates on ac or dc current, bottom mount

Potential Applications

Watt meters

Variable speed drives

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

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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)

Description

Honeywell? s CSL Series miniature, openloop current sensors incorporate our SS490 Series miniature ratiometric linear Halleffect 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



Product Specifications	
Product Type	In - circuit Analog Current Sensor
Sensed Current Type	ac or dc
Sensed Current Range	± 200 mA
Package Style	PCB Bottom Mount
Output Type	Sink/Source
Sensitivity	5.1 mV/mAT ± 20.6 mV /mAT @ 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	4 ohms typ.
Response Time	3 µ s
Coil Turns	300
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