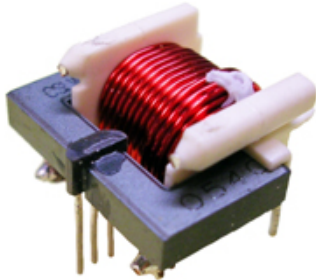


CSLW6B40M



Actual product appearance may vary.

CSL Series miniature wired open-loop current sensor, 40 mA 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 (lead-free)

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, flux collector, and wire coil comprises the current sensor assembly. These sensors are ratiometric.

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

Product Specifications	
Product Type	In-circuit Analog Current Sensor
Sensed Current Type	ac or dc
Sensed Current Range	± 40 mA
Package Style	PCB Bottom 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
Coil Resistance @ 25 °C	120 ohms typ.
Response Time	3 µs
Coil Turns	1500
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