

Representative photograph, actual product appearance may vary.

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

CSLW6B1

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 (lead-free)

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

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Product Specifications	
Sensor Type	Open Loop Linear
Sensed Current Type	ac or dc
Sensed Current Range	± 1 A
Package Style	PCB Bottom Mount
Output Type	Sink/Source
Sensitivity	898 mV/A min. to 1142 mV/A max.
Supply Current	9 mA max.
Offset Voltage	Vs/2
Supply Voltage	4.5 Vdc to 10.5 Vdc
Offset Current	1 mA (sinking); 1.5 mA (sourcing)
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 5 pins
Pinout Style	5 pin
Availability	Global
Comment	Rcoil = 0.16 ohms typ. (Characteristics based on Vs = 5 Vdc, Ta = 25 °C unless specified)
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers

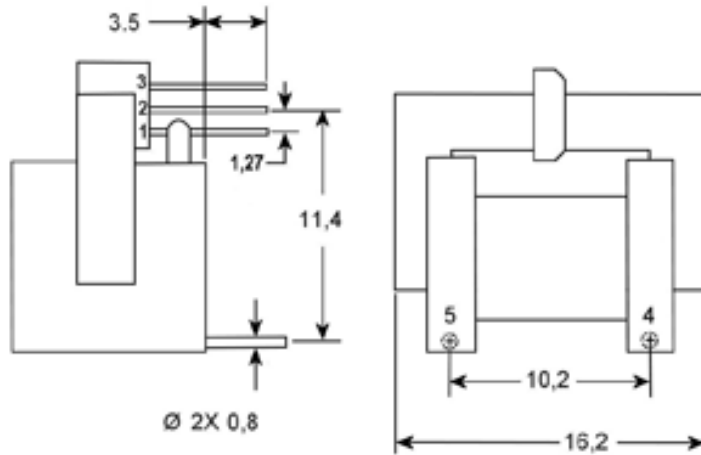
Series Name

CSL Series

Honeywell

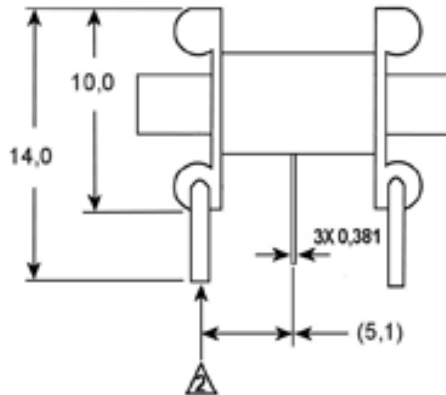
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PIN OUT

- 1 Vs (+)
- 2 GND (-)
- 3 OUT (O)
- 4 PRIMARY Iout
- 5 PRIMARY Iin



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 WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

 WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.