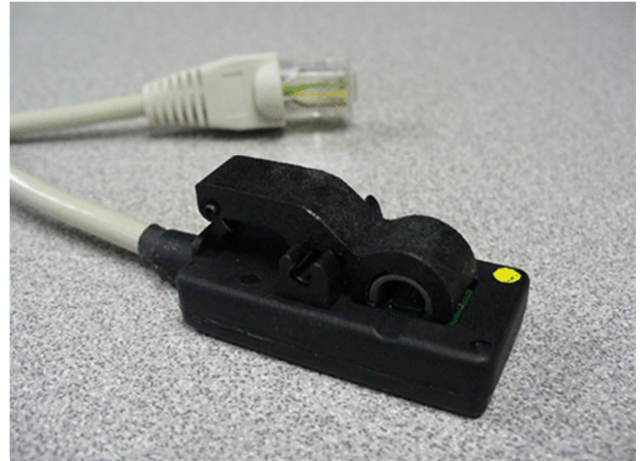


Part No. **CS-HE-CPL**

Clamp On Current Sensor

Sensor Features:

- Non-Intrusive, Small, Clamp-on AC/DC Sensor
- Hall-effect Technology
- Less than 10 Microseconds Response Time
- Locking Mechanism
- Very High Sensitivity
- Very Low Noise
- Shielded Enclosure (curved mu-metal strip)
- Single Cable for Power and Output Signals

Sensor Description:

The clamp on is a small, non-intrusive, clamp-on sensor that uses a Hall-effect chip in order to sense current flow through electric wires. The current sensor has a curved mu-metal strip used for shielding against external magnetic fields and used for amplifying internal fields. It has a clothespin like enclosure and is capable of sensing microsecond transients (AC and DC) with a 2% accuracy range. The sensor uses a single RJ45 shielded cable with 4 pins for both the power and output signals.

Sensor Outputs:

The sensor provides a differential output of 0 +/- 2.5V with respect to an internal reference. With zero current, the output is at 0V and will go toward -2.5V when the current is negative and toward 2.5V when the current is positive. It also provides a single-ended output which provides a 0 to 5V analog output with respect to ground. With zero current, the output is nominally at 2.5V and will go toward ground (0V) when the current is negative and the output will go toward 5V when current is positive. 100 milliamps of current flow produces a 6 millivolt increment on the output terminals, zero current floats under 20 millivolts.

Sensor Specifications:

Differential Output	0 +/- 2.5 VDC
Single-Ended Output	2.5 +/- 2.5 VDC
Supply Voltage	5 VDC
Supply Current	16 Milliamps
Sensitivity Range:	0.05 to 50 Amps
Maximum Conductor	0.187" (4.75 mm) 12 AWG
Response Time	10 Microseconds
Bandwidth	DC to 100 KHz
Sensor Accuracy	2 %
Dimensions (L x W x H)	1.56" x 0.78" x 0.41" Inches
Temperature Range	-40 to 85 °C
Humidity Range	0 to 90% Non-condensing
Cable Length	10 ft
Cable Connector Type	RJ45 Male

Contact Us:

To purchase sensors, please contact our Sales Department at 800-818-3463, sales@softstuf.com

Hours: Monday - Friday, 9:00 a.m. to 6:00 p.m. EST
(Visa, Master Card, American Express, & POs accepted)

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