

Timing Mode: **CURRENT LOOP TRANSMITTER**
Category: **AC CURRENT SENSOR**
Series: **HCSA**

4–20mA CURRENT SENSOR



HCSA High Current Sensor

HCSA is a high-performance current sensor offering outstanding features and durability at low cost.

HCSA monitors AC for high current, with analog output, and two sense ranges.

The industry-standard 4–20mA analog output is electrically isolated from the circuit being monitored and the sensor is completely self-contained in a compact package.

Suitable for a wide range of applications to provide predictive diagnostics on equipment, over-current detection and energy reduction.

HCSA sensors can be used to accurately monitor the operation and status of fans, pumps, and other equipment.

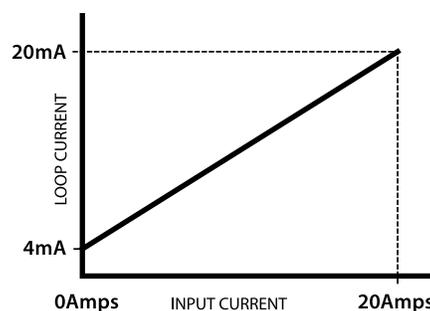
Sense Mode

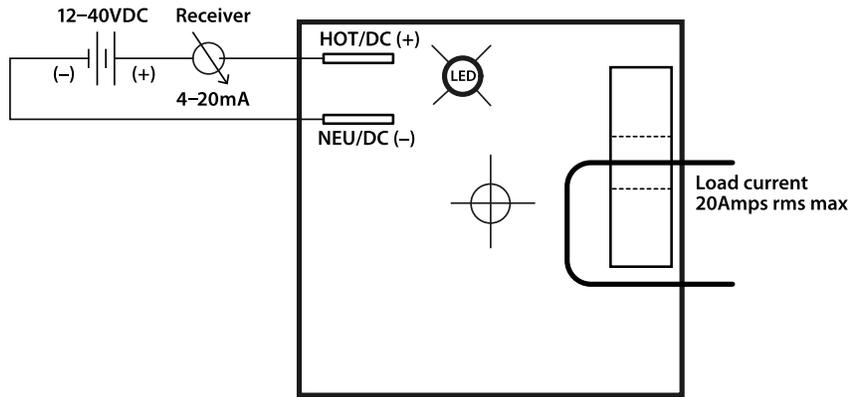
HCSA is a loop powered current transducer with 4–20mA linear output.

Output is directly proportional to the current passing through the torroid..

FEATURES

- Accurate current sensing for proportional 4–20mA analog output over power supply range of 12–40VDC
- Analog output isolated from sensed current input for safety
- Reverse polarity protection
- LED indicator shows output on (brighter=more current)
- 100% solid state with no moving parts to fail
- Easy installation with one mounting screw or bolt
- Compact 2"x2" package
- 100% Calibrated and tested before shipping
- Totally encapsulated for protection from harsh environments
- 100% operational testing
-  **UL**
- RoHS compliant





SPECIFICATIONS

Sensed Current Range: 1A to 10A or 2A to 20A
Current Loop Voltage: 12VDC to 40VDC
Current Loop Range: 4mA to 20mA
Response time: 50mS max

Accuracy: +/- 5% typ.
Linearity: +/- 2%, typ.
Operating Temperature: -25C to +60C
Packaging: 2"x2" encapsulated circuitry with 0.25" QC terminals

Current Loop Transmitter with Current Transformer input
 Full wave rectifier followed by average detector
 LED luminosity proportional with Loop Current

OPTIONS SELECTION

Mode of Operation	Series	Sensed Current	Input Voltage
4-20mA Current Sensor with Analog Output	HCSA	10 1-10Amps	12-40VDC
		20 2-20Amps	

EXAMPLE HCSA 10 4-20mA current sensor with analog output, 12-40VDC input and 1-10Amp AC current sensing