Descriptions

The CS Current Sensor is a solid state transducer for measuring the current in fans, pumps and other HVAC equipment. Select one of three ranges by moving a jumper onthe device to operate over 10A, 20A and 50A. This sensor outputs 0-5V directly and requires no power supply.

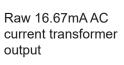
Clamping / Split Core Current Transformer is designed to provide a low cost method to monitoring electrical current. A unique hinge and locking snap allows attachment without interrupting the current-carrying wire. High secondary turn will develop signals up to 10Vac across a burden resistor.

Clamping Style



Features

- 1. Self powered, no external power supplyrequired
- 2.1-5VDC output, connects directly toautomation systems
- 3. One sensor for three ranges, jumper selected
- 4. Low cost, replaces digital status relays
- 5.Panel mounting





Specifications

Power Supply: Not required

Operating Temperature: -20 \sim 60 OC Operating Humidity: 0 \sim 95% RH

CT Material: ABS (UL94)

CT Ranges: 10, 20, 50Amp, jumper selected

Output Signal: 1~5VDC; porportional to average current

Accuracy: 2%

Plastic housing: Flammability rating UL94HB

Non Clamping Style

Key Specifications

Window Size	0.4" (10 mm)	
Current Range*	0.25 - 40A AC	
Output	300 mV @ 20A AC	
Ratio Error**	atio Error** <0.5% from 0.25 to 40A AC (typica	
Phase Error**	<1.5° from 1 to 40A C <2° from 0.25 to 1A AC	

DC output



Electrical

Output 300 mV @ 20 A

Wire Polarity Red = Hi, positive(+)

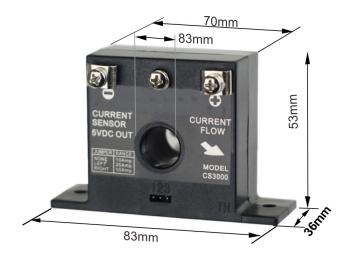
Black= Low, negative(-)

Phasing Arrow On Case Points

Orientation Toward Load

Frequency Range 50 to 400 Hz

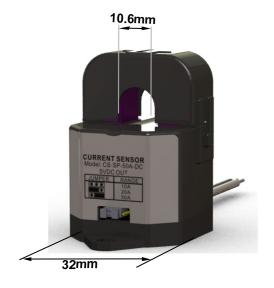
Mechanical

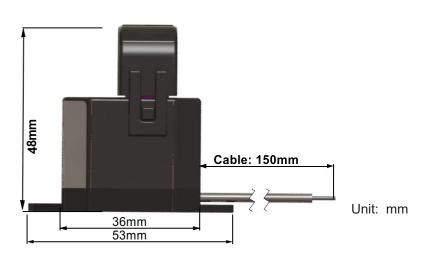


Case Material Back Nylon

Leads 2.4 M (8'). 600 V. 20 gage

Working Temperature 15 to 60 °C (59 to 140 °F)

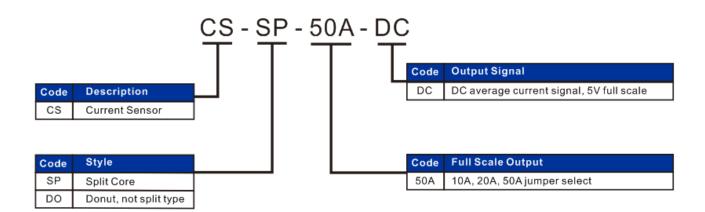




Specifications

JUMPER	RANGE
1 2 3	10A 20A 50A

Part Number Scheme



Ordering information

Part Number	Description	
CS-DO-50A-DC	Non clamping current sensor, AC input, range 10A, 20A, 50A jumper select, 0-5VDC out.	
CS-SP-50A-DC	Clamping current sensor, AC input, range 10A, 20A, 50A jumper select, 0-5VDC out.	

Typical Performance Curves

