

Current Transducers

⚙️ Description:

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 on the 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.



⚙️ Features:

- Self powered, no external power supply required
- 1-5VDC output, connects directly to automation systems
- One sensor for three ranges, jumper selected
- Low cost, replaces digital status relays
- Panel mounting

⚙️ Specifications:

Power Supply	:	Not required
Operating Temperature	:	-20 ~ 60 OC
Operating Humidity	:	0 ~ 95% RH
CT Material	:	ABS (UL94)
CT Ranges	:	10, 20, 50Amp, jumper selected
Output Signal	:	1~5VDC; proportional to average current
Accuracy	:	2%
Plastic housing	:	Flammability rating UL94V0 file E194560

⚙️ Key Specifications:

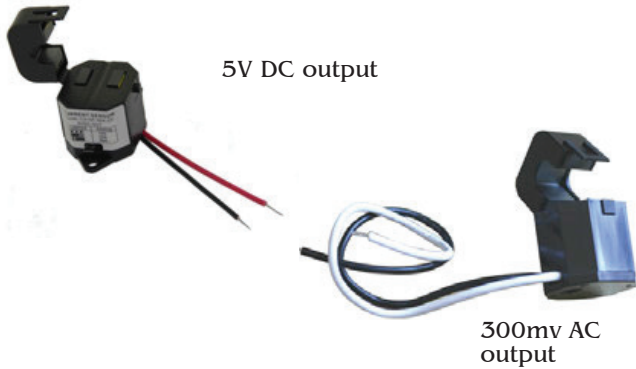
Window Size	:	0.4" (10 mm)
Current Range*	:	0.25 - 40A AC
Output	:	300 mV @ 20A AC
Ratio Error**	:	<0.5% from 0.25 to 40A AC (typical)
Phase Error**	:	<1.5 from 1 to 40A C <2 from 0.25 to 1A AC



Current Transducers

⚙️ Dimensions:

Clamping Style



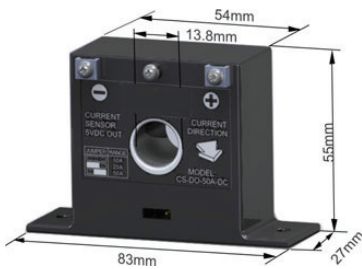
Non-Clamping Style



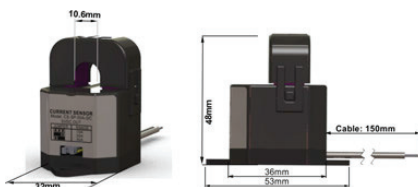
⚙️ Electricals:

- 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)
- Unit : mm



⚙️ Specifications:

JUMPER	RANGE
	10A
	20A
	50A

Current Transducers

HOW TO ORDER

⚙️ Description: CS

CS Current Sensor

⚙️ Style: SP

SP Split Core

DO Donut,not split type

⚙️ Full Scale Output: 50A

50A 10A,20A,50A jumper select

50F 50A fixed

⚙️ TEMPERATURE CURVE: DC

AC Raw 300mV AC current transformer output

DC DC average current signal, 5V full scale

Ordering Example: CS - SP - 50A - DC