

Current Sensors

A/CTE, A/CTV, A/SCTE, A/SCTV



Solid-Core

Split-Core

Analog Output

Sensors with 0 to 5 VDC & 0 to 10 VDC Output

The A/CTE, A/SCTE, A/CTV and A/SCTV Series current sensors monitor the current flowing to electrical equipment or buildings. The magnitude of this current is then converted into a linear 0 to 5 or 0 to 10 VDC output signal, based on the model selected. This series is fast-acting and extremely accurate from 5% to 100% of the full scale output. The sensors are factory calibrated using a NIST traceable standard. Power for this series is induced from the conductor being monitored so no external power supply is required. Every device on this cutsheet features a patented Din-Rail mounting system (Pat. no. 7,416,421) for ease of installation.

Specifications

Sensor Power	Induced from monitored conductor	
Output Voltage	A/CTE & A/SCTE Series: 0 to 5 VDC	A/CTV & A/SCTV Series: 0 to 10 VDC
Amperage Ranges	0 to 250A (See ordering information)	
Accuracy	A/CTE & A/SCTE: +/- 1.0% (2 to 100% FSO)	A/CTV & A/SCTV: +/- 1.0% (5 to 100% FSO)
Response Time	A/CTE & A/SCTE: <100 mS	A/CTV & A/SCTV: <100 mS
Operating Frequency Range	50 to 600 Hz	
Isolation Voltage	2,200 VAC	
Maximum Sensing Current Voltage	600 VAC	
Aperture (Hole) Size	0.75" DIA (insulated conductors required)	
Din-Rail Size	35mm	
Operating Temperature Range	-15 to 40°C (5 to 104°F)	
Operating Humidity Range	0 to 95% RH, non-condensing	
Product Dimensions	Split Core: (L) 3.33" (W) 1.08" (H) 2.70"	Solid Core: (L) 3.38" (W) 0.98" (H) 2.27"

Ordering

Select one Current Switch (A). **NOTE:** LEDs are intended to indicate whether power is applied. Current Switches are not to be used in Life & Safety applications, or in hazardous locations.

A Current Switches

- A/CTE-50 (Solid-Core, 0 to 5 VDC Output) (Jumper Selectable Range: 0-10, 0-20, 0-50A)
- A/CTE-250 (Solid-Core, 0 to 5 VDC Output) (Jumper Selectable Range: 0-100, 0-200, 0-250A)
- A/CTV-50 (Solid-Core, 0 to 10 VDC Output) (Jumper Selectable Range: 0-10, 0-20, 0-50A)
- A/CTV-250 (Solid-Core, 0 to 10 VDC Output) (Jumper Selectable Range: 0-100, 0-200, 0-250A)
- A/SCTE-50 (Split-Core, 0 to 5 VDC Output) (Jumper Selectable Range: 0-10, 0-20, 0-50A)
- A/SCTE-250 (Split-Core, 0 to 5 VDC Output) (Jumper Selectable Range: 0-100, 0-200, 0-250A)
- A/SCTV-50 (Split-Core, 0 to 10 VDC Output) (Jumper Selectable Range: 0-10, 0-20, 0-50A)
- A/SCTV-250 (Split-Core, 0 to 10 VDC Output) (Jumper Selectable Range: 0-100, 0-200, 0-250A)

Build your part number

After completing (A) from the above table, fill in the Part Number Table below. An example part number is offered.

A

EXAMPLE: A/SCTE-50



All Current Sensors, Switches and Command Relays have a UL94-5VB flammability rating for the enclosure.