CURRENT TRANSDUCERS
A/CT, A/SCT SERIES

DESCRIPTION

The **ACI A/CT, A/SCT Current sensors** monitor the current flowing to electrical equipment. The magnitude of the analog output signal is proportional to the current flow through the wire. The **A/CT** series offers solid-core sensors with 4-20mA, 0-5VDC, or 0-10VDC outputs. The **A/SCT** series offers split-core sensors for retrofit applications with the same available outputs. Sensors are available with various input current ranges from 5 to 250 amps. True RMS models make monitoring of VFD applications a snap.

A/CTA2

A/SCTA2

FEATURES

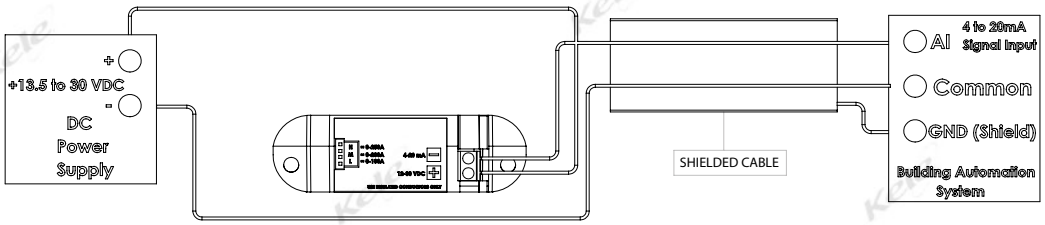
- ***Available in solid-core or split-core***
- ***5 VDC, 10 VDC or 4-20mA outputs***
- ***Voltage output models are self-powered***
- ***Integral DIN rail mount***
- ***True RMS versions for VFD applications***
- ***Jumper slectable ranges***

SPECIFICATIONS

Supply Voltage	8.5 to 30 VDC (reverse polarity protected)
Output	
A/CTA, A/SCTA	4-20 mA@700Ω, 2-wire loop(36 mA max)
A/CTE, A/SCTE	0-5 VDC
A/CTV, A/SCTV	0-10 VDC
Frequency	
A/CTA2 & A/SCTA2	40 to 1KHz (full voltage operation)
A/CTA2-50-RMS	15 to 100 Hz
A/SCTA2-50-RMS	15 to 100 Hz
A/CTA2-250-RMS	(0-100A Range): 15 to 100 Hz,
A/CTA2-250-RMS	(0-200/250A Ranges): 30-to 100 Hz (VFD compatible)
Maximum Voltage	600 VAC
Insulating Class	2200 VAC
Accuracy	All models: +/- 1% of selected range except A/SCTA2-50-RMS: +/- 2% from 15 to 20 Hz, +/- 1% from 20 to 100 Hz
Current sensing	AC current
Average	Pure sinusoidal
RMS	Distorted & sinusoidal (VFD)

Operating Temperature	5° to 104°F (-15° to 40°C)
VFD models	32° to 104°F (0° to 40°C)
Operating Humidity	0 to 95% (non-condensing)
Enclosure Rating	NEMA 1, UL94-5VB
Mounting	DIN rail size 35 mm
Window Size	~0.75", accepts up to 350 MCM cables
Terminal	Terminals (18-24 awg)
Ranges	Jumper selectable
Dimensions	
Solid Core	2.36"W x 2.36"H x 1.03"D
Split Core	2.55"W x 2.55"H x 1.03"D
Weight	
A/CTA2-xxx	0.260 lbs (0.118Kg)
A/SCTA2-xxx	0.274 lbs (0.124 Kg)
A/CTA2-xxx-RMS	0.190 lbs (0.087 Kg)
A/SCTA2-xxx-RMS	0.190 lbs (0.087 Kg)
Approvals	UL File #E309723, CE (not the VFD models), RoHs
Warranty	5 years, limited

WIRING



ORDERING INFORMATION

MODEL	DESCRIPTION
A/CTA2-5	Solid core current transmitter, 0-5A to 4-20 mA
A/CTA2-50	Solid core current transmitter, 0-10/20/50A to 4-20 mA
A/CTA2-250	Solid core current transmitter, 0-100/200/250A to 4-20 mA
A/CTA2-50-RMS	Solid core current transmitter, 0-10/20/50A to 4-20 mA, (VFD applications)
A/CTA2-250-RMS	Solid core current transmitter, 0-100/200/250A to 4-20 mA, (VFD applications)
A/SCTA2-5	Split core current transmitter, 0-10/20/50A to 4-20 mA
A/SCTA2-50	Split core current transmitter, 0-10/20/50A to 4-20 mA
A/SCTA2-200	Split core current transmitter, 0-100/150/200A to 4-20 mA
A/SCTA2-50-RMS	Split core current transmitter, 0-10/20/50A to 4-20 mA, (VFD applications)
A/CTE2-50	Solid core current transmitter, 0-10/20/50A to 0-5 VDC
A/CTE2-150	Solid core current transmitter, 0-50/100/150A to 0-5 VDC
A/SCTE2-50	Split core current transmitter, 0-10/20/50A to 0-5 VDC
A/SCTE2-150	Split core current t transmitter, 0-50/500/150A to 0-5 VDC
A/SCTE2-250	Split core current transmitter, 0-100/200/250A to 0-5 VDC
A/CTV2-50	Solid core current transmitter, 0-10/20/50A to 0-10 VDC
A/CTV2-150	Solid core current transmitter, 0-50/100/150A to 0-10 VDC
A/SCTV2-50	Split core current transmitter, 0-10/20/50A to 0-10 VDC
A/SCTV2-150	Split core current transmitter, 0-50/500/150A to 0-10 VDC
A/SCTV2-250	Split core current transmitter, 0-100/200/250A to 0-10 VDC