

## ANALOG OUTPUT

## Sensors with 4 to 20 mA Output

The A/CTA and A/SCTA Series current sensors monitor the current flowing to electrical equipment or buildings. The magnitude of this current is then converted into a linear and proportional 4 to 20 mA output signal. The A/CTA Series current sensors are available in either an Average or True RMS output version. Nearly all of these sensors have jumper selectable input ranges, with the exception of the 0 to 5 Amp input range on the A/CTA-5 and A/SCTA-5 Series sensors. This series is fast-acting and extremely accurate from 1 to $100 \%$ of the full scale output. The sensors are factory calibrated using an NIST traceable standard. Every device on this cutsheet features a patented Din-Rail mounting system (Pat. no. US 7,416,421) for ease of installation.

## SPECIFICATIONS

Sensor Supply Voltage
Amperage Rating
Supply Current
Output
Max Load Resistance (A/CTA \& A/SCTA)
Max Load Resistance (A/CTA-VFD \& A/SCTA-VFD)
Response Time
Isolation Voltage
Maximum Sensing Current Voltage
Aperture (Hole) Size
Operating Temp Range (A/CTA \& A/SCTA)
Operating Temp Range (A/CTA-VFD \& A/SCTA-VFD)
Operating Humidity Range
Product Dimensions
Amp Range (A/CTA) (All Non-VFD Models)
Amp Range (A/SCTA) (All Non-VFD Models)
Amp Range (A/CTA-50-VFD) (10, 20 \& 50A)
Amp Range (A/SCTA-50-VFD) $(10,20 \& 50 \mathrm{~A})$
Amp Range (A/CTA-250-VFD) (100A)
Amp Range (A/CTA-250-VFD) ( 200 \& 250A)
Amp Range (A/SCTA-200-VFD) $(100,150 \& 200 \mathrm{~A})$
+12 to 30 VDC
0-250A (See Ordering Information)
36 mA maximum
4-20 mA, 2-wire Loop Powered
700 Ohms @ 24 VDC (Vs-9)/0.02-40.2
700 Ohms @ 24 VDC (Vs-10)/0.02
A/CTA \& A/SCTA: <75mS | A/CTA-VFD \& A/SCTA-VFD: <2 seconds
2,200 VAC
600 VAC
$0.75^{\prime \prime}$ DIA (insulated conductors required)
-15 to $40^{\circ} \mathrm{C}$ ( 5 to $104^{\circ} \mathrm{F}$ )
0 to $40^{\circ} \mathrm{C}$ ( 32 to $104^{\circ} \mathrm{F}$ )
0 to 95\% RH, non-condensing
Split Core: (L) $3.33^{\prime \prime}(W) 1.08^{\prime \prime}(H) 2.70^{\prime \prime} \mid$ Solid Core: (L) 3.38" (W) 0.98" (H) 2.27"
$15-200 \mathrm{~Hz}$ : Not Rated | 30-60Hz: +/- $0.75 \%$ Accuracy | $30 \mathrm{~Hz}-1 \mathrm{KHz}:+/-0.75 \%$ Accuracy
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$15-200 \mathrm{~Hz}:+/-1 \%$ Accuracy | $30-60 \mathrm{~Hz}:+/-0.75 \%$ Accuracy | $30 \mathrm{~Hz}-1 \mathrm{KHz}:----$
$15-200 \mathrm{~Hz}:+/-2 \%$ Accuracy | $30-60 \mathrm{~Hz}:+/-0.75 \%$ Accuracy | $30 \mathrm{~Hz}-1 \mathrm{KHz}:----$
15-200Hz: +/-1\% Accuracy | 30-60Hz: +/- 0.75\% Accuracy | 30Hz-1KHz: ----
$15-200 \mathrm{~Hz}$ : Not rated | $30-60 \mathrm{~Hz}:+/-0.75 \%$ Accuracy | $30 \mathrm{~Hz}-1 \mathrm{KHz}:----$
$15-200 \mathrm{~Hz}$ : Not rated | $30-60 \mathrm{~Hz}:+/-0.75 \%$ Accuracy | $30 \mathrm{~Hz}-1 \mathrm{KHz}:----$

## ORDERING

Select one Current Sensor (A). NOTE: Current Switches are not to be used in Life \& Safety applications, or in hazardous locations.
A)

## Current Switches

A/CTA-5 (Loop Powered, Solid-Core, 4-20 mA Average Output)A/CTA-50 (Loop Powered, Solid-Core, 4-20 mA Average Output) A/CTA-250 (Loop Powered, Solid-Core, 4-20 mA Average Output) A/CTA-50-VFD (Loop Powered, Solid-Core, True RMS, 4-20 mA Output) A/CTA-250-VFD (Loop Powered, Solid-Core, True RMS, 4-20 mA Output) A/SCTA-5 (Loop Powered, Split-Core, 4-20 mA Average Output) A/SCTA-50 (Loop Powered, Split-Core, 4-20 mA Average Output) A/SCTA-200 (Loop Powered, Split-Core, 4-20 mA Average Output) A/SCTA-50-VFD (Loop Powered, Split-Core, True RMS, 4-20 mA Output) A/SCTA-200-VFD (Loop Powered, Split-Core, True RMS, 4-20 mA Output)
(Jumper Selectable Range: 0-5A (Not Selectable)) CE Compliant (Jumper Selectable Range: $0-10,0-20,0-50 \mathrm{~A}$ ) CE Compliant (Jumper Selectable Range: $0-100,0-200,0-250 \mathrm{~A})$ CE Compliant (Jumper Selectable Range: $0-10,0-20,0-50 \mathrm{~A}$ ) Not CE Compliant (Jumper Selectable Range: 0-100, 0-200, 0-250A) Not CE Compliant (Jumper Selectable Range: 0-5A (Not Selectable)) CE Compliant (Jumper Selectable Range: 0-10, 0-20, 0-50A) CE Compliant (Jumper Selectable Range: $0-100,0-150,0-200 \mathrm{~A})$ CE Compliant (Jumper Selectable Range: $0-10,0-20,0-50 \mathrm{~A}$ ) Not CE Compliant (Jumper Selectable Range:0-100, $0-150,0-200 \mathrm{~A})$ Not CE Compliant

## BUILD PART NUMBER

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

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[^0]:    EXAMPLE: A/SCTA-200-VFD

