

AC/DC Hall Effect Current Transducer

DIN RAIL / PANEL MOUNT, TRACING OUTPUT



Single Element - .79" Window
20 TO 300 AAC/DC Input Range

The **CR5400** Series, AC/DC Hall Effect Current Transducers, are designed to provide a bipolar output that proportionally reflects (traces) the waveform of the input current. These devices are specifically targeted to be used in applications where multi-mode current sensing is required.

Applications

Inverter and multi-frequency drives
Multi-mode ground paths carrying both AC and DC signals
Feed back loop building block

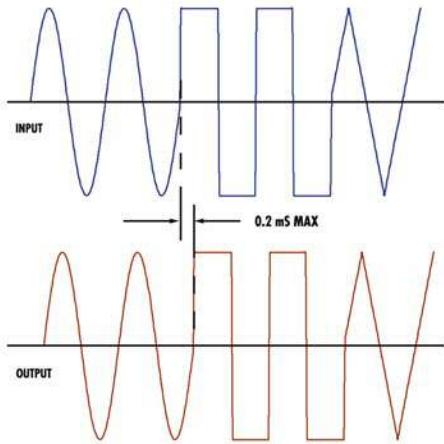
Features

Output isolated from input
Non-contact current sensing
35mm DIN Rail or Panel Mount
Connection diagram printed on case

Regulatory Agencies

Constructed to meet UL 61010B-1
Constructed to meet CAN/CSA-C22.2, No. 61010-1-2004
Meets requirement of IEC 61010-1 and BS EN 61010-1

C
Transducers



TYPICAL TRACKING FUNCTION



All single phase current transducers are available in split core design. Simply put an "S" at the end of the prefix*
I.E. CR5410S-30

PART NUMBERS			
CR5410(S)	-		Single Element with ± 5 VAC/DC output (split core design)
CR5411(S)	-		Single Element with ± 10 VAC/DC output (split core design)
NOTE: AC/DC Split Core Transducers Available in 20 Amps and Higher			

Add suffix for input range

- 20** - ± 20 AAC/ADC
- 30** - ± 30 AAC/ADC
- 50** - ± 50 AAC/ADC
- 75** - ± 75 AAC/ADC
- 100** - ± 100 AAC/ADC
- 150** - ± 150 AAC/ADC
- 300** - ± 300 AAC/ADC

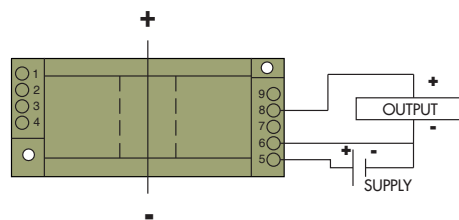
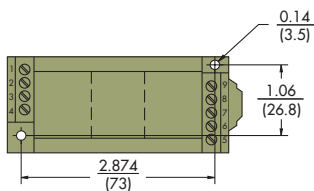
Ranges available up to and including 600 AAC/ADC

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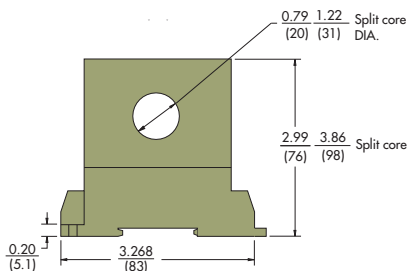
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SPECIFICATIONS

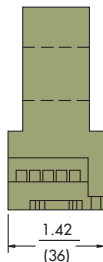
Basic Accuracy:.....	1.0 %	Frequency Range:.....	DC to 4 KHz
Linearity:.....	10% to 100% FS	Output:.....	±5 Vac/DC or ±10 Vac/DC
Thermal Drift:.....	500 PPM/°C	Output Load:.....	2 K Ω or greater
Operating Temperature:.....	0°C to +50°C	Relative Humidity:.....	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C
Installation Category:.....	CAT II	Supply Current:	
Vibration Tested To:.....	IEC 60068-2-6,1995	CR5410:.....	Typical 35mA Max 40mA
Pollution Degree:.....	2	CR5410S:.....	Typical 30mA Max 35mA
Altitude:.....	2000 meter max.	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Insulation Voltage:.....	2500 VDC	Weight:.....	0.5 lbs.
Cleaning:.....	Water-dampened cloth		
MTBF:.....	Greater than 100K hours		
Supply Voltage:.....	24 VDC ±10%		



CR5410 ±5 VAC/VDC Output
CR5411 ±10 VAC/VDC Output



1 hole: 0.79(20) Dia. for CR5410 (shown)



OUTLINE DRAWING

CONNECTION DIAGRAM



Power Supply

NOTE: The building installation must have a switch or circuit-breaker that is in close proximity and within easy reach of the operator. The switch or circuit breaker shall be marked as the disconnecting device for the equipment.