

# 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

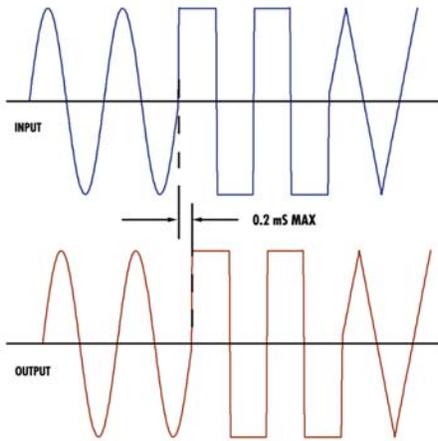
Inverter and multi-frequency drives  
Multi-mode ground paths carrying both AC and DC signals  
Feed back loop building block

### 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



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

C  
Transducers

PART NUMBERS			
CR5410(S)	-		Single Element with $\pm 5$ VDC output (split core design)
CR5411(S)	-		Single Element with $\pm 10$ VDC output (split core design)

NOTE: AC/DC Split Core Transducers Available in 20 Amps and Higher

□ Add suffix for input range

- 20** -  $\pm 20$  AAC/ADC
- 30** -  $\pm 30$  AAC/ADC
- 50** -  $\pm 50$  AAC/ADC
- 75** -  $\pm 75$  AAC/ADC
- 100** -  $\pm 100$  AAC/ADC
- 150** -  $\pm 150$  AAC/ADC
- 300** -  $\pm 300$  AAC/ADC

Ranges available up to and including 600 AAC/ADC



CR Magnetics, Inc. 3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

Web: <http://www.crmagnetics.com>

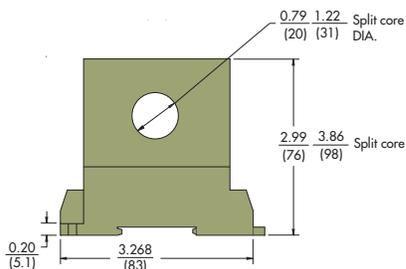
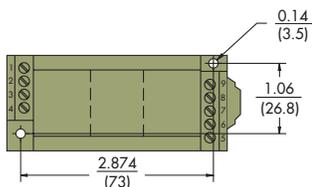
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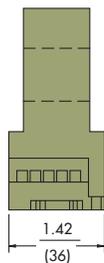
## SPECIFICATIONS

Basic Accuracy:..... 1.0%  
 Thermal Drift:..... 500 PPM/°C  
 Operating Temperature:..... 0°C to +50°C  
 Insulation Voltage:..... 2500 VDC  
 MTBF:..... Greater than 100 K hours  
 Supply Voltage:..... 24 VDC ±10%  
 Frequency Range:..... DC - 4 KHz

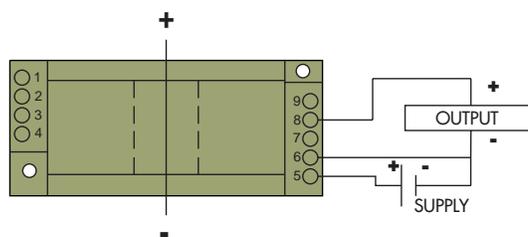
Output:..... ±5VDC or ±10VDC  
 Output Load:..... 2 K Ω or greater  
 Supply Current:  
 CR5410:..... Typical 35mA    Max 40mA  
 CR5410S            Typical 30mA    Max 35mA  
 Torque Specs.:..... 3.0 inch lbs. (0.4Nm)  
 Weight:.....0.5 lbs.



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



## OUTLINE DRAWING



**CR5410** ±5 VDC Output  
**CR5411** ±10 VDC Output

## 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.



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