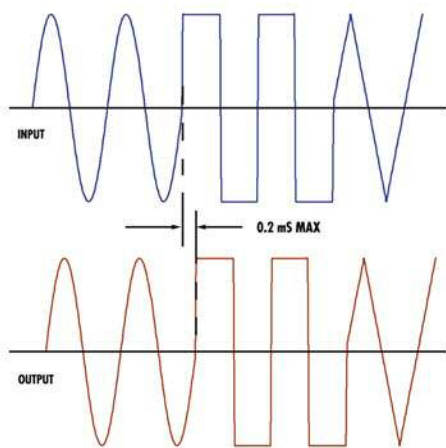


# AC/DC Hall Effect Current Transducer

## DIN RAIL / PANEL MOUNT, TRACING OUTPUT



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



TYPICAL TRACKING FUNCTION

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



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 $\pm 5$ VAC/DC output (split core design)  |
| CR5411(S) | - |  | Single Element with $\pm 10$ VAC/DC output (split core design) |

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

Add suffix for input range

- 20** -  $\pm 20$  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

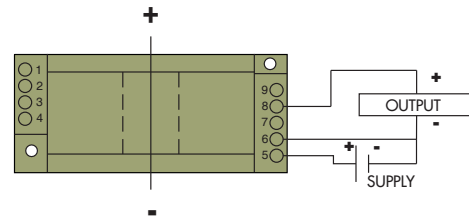
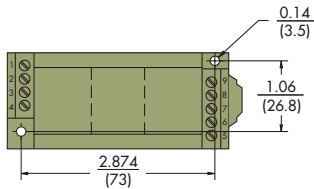
Ranges available up to and including 600 AAC/ADC

# AC/DC Hall Effect Current Transducer

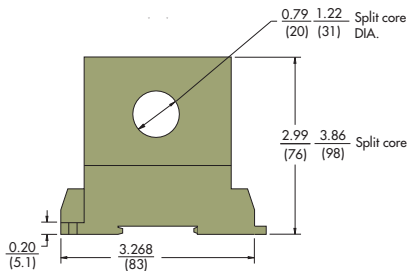
DIN RAIL / PANEL MOUNT, TRACING OUTPUT

## SPECIFICATIONS

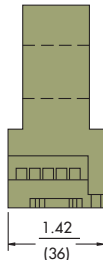
|                             |                         |                         |                                                                        |
|-----------------------------|-------------------------|-------------------------|------------------------------------------------------------------------|
| 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

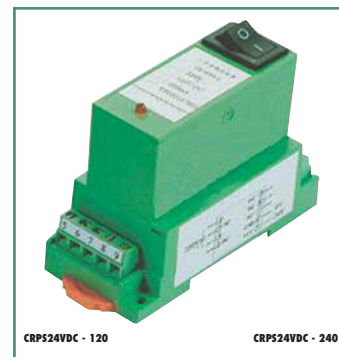


1 hole: 0.79(20) Dia. for CR5410 (shown)



## 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.