

Excellent Integrated System Limited

Stocking Distributor

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[CR Magnetics Inc.](#)

[CR5410-20](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

AC/DC Hall Effect Current Transducer

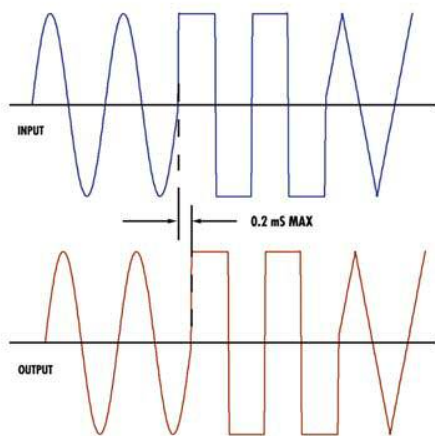
DIN RAIL / PANEL MOUNT, TRACING OUTPUT



CR5410

CR5411

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 ± 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

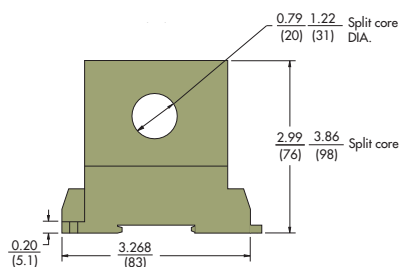
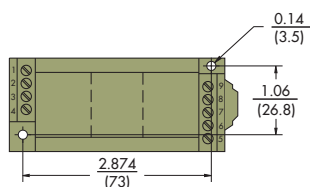
- 20** - ± 20 AAC/ADC
 - 30** - ± 30 AAC/ADC
 - 50** - ± 50 AAC/ADC
 - 75** - ± 75 AAC/ADC
 - 100** - ± 100 AAC/ADC
 - 150** - ± 150 AAC/ADC
 - 300** - ± 300 AAC/ADC
- Ranges available up to and including 600 AAC/ADC

AC/DC Hall Effect Current Transducer

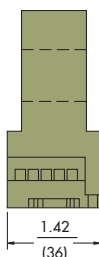
DIN RAIL / PANEL MOUNT, TRACING OUTPUT

SPECIFICATIONS

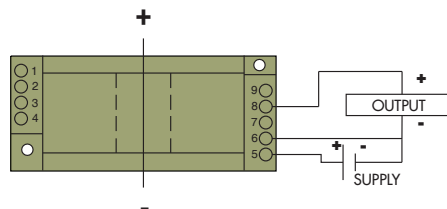
| | | | |
|-----------------------------|-------------------------|-------------------------|------------------------------------------------------------------------|
| Basic Accuracy:..... | 1.0 % | Frequency Range:..... | DC to 4 KHz |
| Linearity:..... | 10% to 100% FS | Output:..... | ±5 Vac/DC or ±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% | | |



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



OUTLINE DRAWING



CR5410 ±5 VAC/VDC Output

CR5411 ±10 VAC/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.