

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

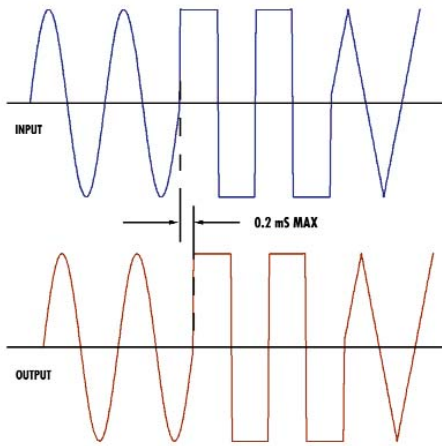
Inverter and multi-frequency drives
Multi-mode ground paths carrying both AC and DC signals
Feed back loop building block

Features

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

Regulatory Agencies

Approved to UL3111-1, First Edition, Amendment 2



TYPICAL TRACKING FUNCTION



All single phase current transducers are available in split core design.
Simply put an "S" at the end of the prefix
* **UL Recognition Pending**

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/DC
 - 30** - ± 30 AAC/DC
 - 50** - ± 50 AAC/DC
 - 75** - ± 75 AAC/DC
 - 100** - ± 100 AAC/DC
 - 150** - ± 150 AAC/DC
 - 300** - ± 300 AAC/DC
- other ranges available



Another HUNTINGTON ELECTRIC Company

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>

E-mail: sales@crmagnetics.com

Transducers

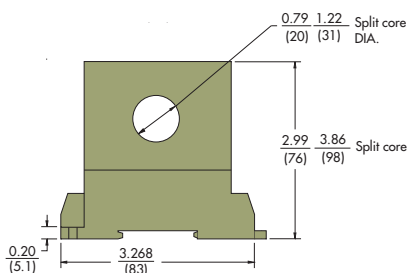
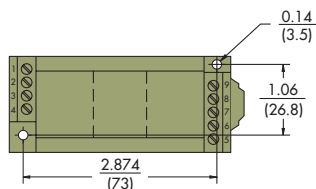
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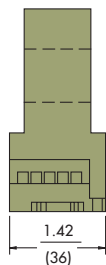
SPECIFICATIONS

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

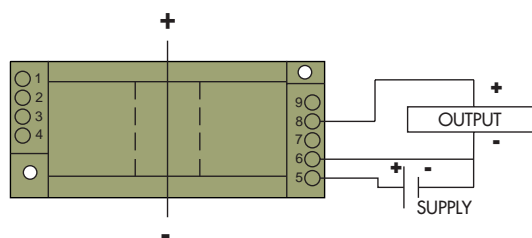
Output:..... ±5 VAC/DC
 Output Load:..... 2 K Ω or greater
 Supply Current:
 CR5410:..... Typical 35mA Max 40mA
 CR5410S Typical 30mA Max 35mA
 Torque Specs.:..... 3.0 inch lbs. (0.4Nm)
 Weight:..... 0.5 lbs.



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



OUTLINE DRAWING



CR5410
±5 VAC/DC 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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