

# Self Powered AC Current Transducer

## DIN RAIL / PANEL MOUNT, AVERAGE RMS



Single Element - .79" Window  
2 to 200 AAC Input Range



Single Element - 1.22" Window  
2 to 200 AAC Input Range

The **CR4210** and **CR4211** Series Current Transducers are self powered. These transducers are calibrated to provide a 0-5 VDC and 0-10 VDC signal that is proportional to the average RMS input AC current. Designed for multi-point current sensing, these devices provide excellent features in a high value package.

### Applications

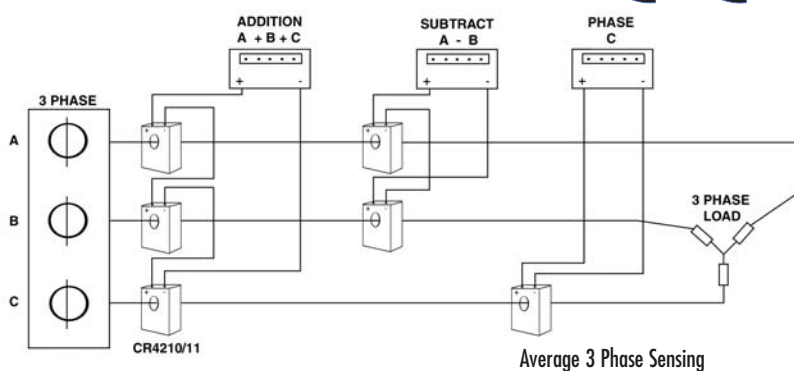
Phase fired controlled heaters  
Quickly varying motor loads  
Chopped wave form drivers  
Harmonic currents

### Features

35mm DIN Rail or Panel Mount  
Available with 0 - 5 VDC or 0-10 VDC outputs  
Self powered, requires no external power source  
Use with external current transformers  
Low cost  
Connection diagram printed on case

### Regulatory Agencies

Recognized to UL 61010B-1  
Recognized to 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. CR4210S-10

\* Not UL Recognized

### PART NUMBERS

<b>CR4210(S)</b>	-	Single element with 0 - 5 VDC output (split core design)
<b>CR4211(S)</b>	-	Single element with 0 - 10 VDC output (split core design)*

\*CR4210S and CR4211S only available in ranges 20 amps and above

Add suffix for input range

<b>2</b>	-	0-2 AAC
<b>5</b>	-	0-5 AAC
<b>10</b>	-	0-10 AAC
<b>20</b>	-	0-20 AAC
<b>50</b>	-	0-50 AAC
<b>70</b>	-	0-70 AAC
<b>100</b>	-	0-100 AAC
<b>150</b>	-	0-150 AAC
<b>200</b>	-	0-200 AAC

Ranges available up to and including  
600 AAC



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](mailto:sales@crmagnetics.com)

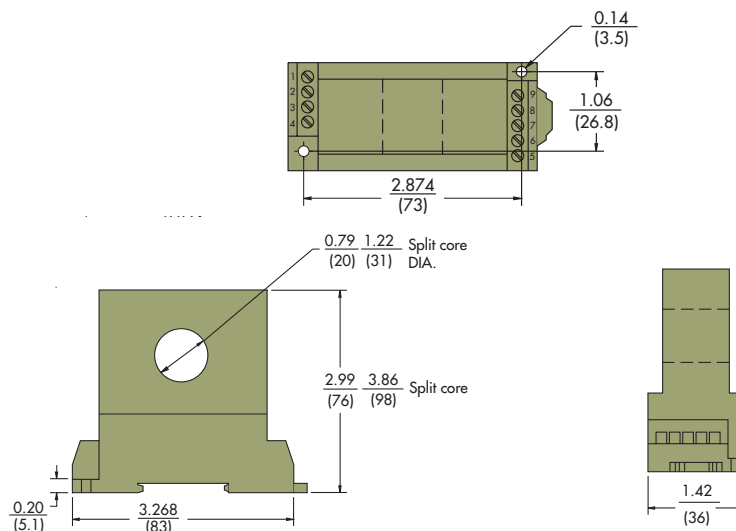
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## SPECIFICATIONS

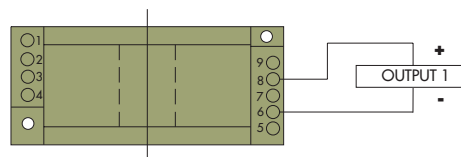
Basic Accuracy:.....	0.5%	Cleaning:.....	Water-dampened cloth
Thermal Drift:.....	500 PPM/°C	Output Load:.....	1M $\Omega$ or Greater
Operating Temperature:.....	0°C to +60°C	Greater Response Time:.....	250 ms max., 0-90%FS
Installation Category:.....	CAT II	Relative Humidity:.....	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C
Pollution Degree:.....	2	Supply Power:.....	Self powered (output voltage is obtained from current-sensing conductor)
Insulation Voltage:.....	2500 VDC	Torque Specs.:.....	3.0 inch lbs. (0.4Nm)
Altitude:.....	2000 meter max.	Weight:.....	0.5 lbs.
Frequency Range:.....	50Hz - 400Hz		
Calibration:.....	Average Sensing, RMS Calibrated		
MTBF:.....	Greater than 100 K hours		

## OUTLINE DRAWING



1 hole: 0.79(20) Dia. for CR4210 & 4211 (shown)

## CONNECTION DIAGRAM



**CR4210** Single Element 0 - 5 VDC Output

**CR4211** Single Element 0 - 10 VDC Output

Request CR Magnetics Low & Medium Voltage Current Transformers Catalog.

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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