

DC Voltage Transducer

DIN RAIL / PANEL MOUNT, RMS



Single Element
1 - 200 VDC Input Range

If you need a relay output, use a **CR3395**.
See Section for Details.

The **CR5300** Series, DC Voltage Transducers and Transmitters, are designed to provide an output DC signal that is proportional to the input DC voltage. These devices are especially suited for applications with a current shunt to monitor DC current.

Applications

Power Supply over/under sensing
Battery chargers and systems
Mobile applications
Power sensing

Features

Output isolated from input
Available with 0-5 VDC, 0-10 VDC or 4 - 20 mADC outputs
35mm DIN rail or panel mount
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

CR5310 with Resistor Application is shown below (optional).



PART NUMBERS

Model	Output	Input Range
CR5310	5 VDC	0-1 VDC
CR5311	10 VDC	0-5 VDC
CR5320	4 - 20 mADC	0-10 VDC

NOTE: CR5300 Series is available with 12V Power Supply. Use same application as 24V Power Supply.
Example Part Number: CR5310-300-12V

Add suffix for input range

- 1** - 0-1 VDC
- 5** - 0-5 VDC
- 10** - 0-10 VDC
- 50** - 0-50 VDC
- 150** - 0-150 VDC
- 200** - 0-200 VDC

Ranges available up to and including 600 VDC

* UL Recognized up to 300 Vdc



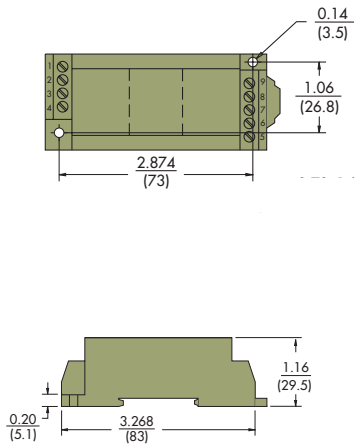
CR Magnetics, Inc. 3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

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

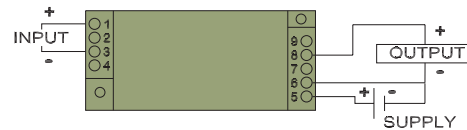
E-mail: sales@crmagnetics.com

SPECIFICATIONS

Basic Accuracy:.....	0.5 %	Supply Voltage:.....	24 VDC $\pm 10\%$
Calibration:.....	RMS Calibrated	Frequency Range:.....	DC only
Thermal Drift:.....	200 PPM/ $^{\circ}\text{C}$	Output Load:..... ± 5 or ± 10 VDC.....	2 K Ω or greater
Operating Temperature:.....	0 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$	4-20 mADC.....	0 - 300 Ω
Installation Category:.....	CAT II	Supply Current:	
Pollution Degree:.....	2	CR5310:.....	Typical 10mA Max 15mA
Response Time:.....	250 ms. max., 0-90% FS	CR5320:.....	Typical 35mA Max 35mA
Altitude:.....	2000 Meters Max.	Torque Specs.:.....	3.0 inch lbs. (0.4Nm)
MTBF:.....	Greater than 100 K hours	Weight:.....	0.5 lbs.
Insulation Voltage:.....	2500 VDC		



OUTLINE DRAWING



CONNECTION DIAGRAM

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.