

DC Voltage Transducer

DIN RAIL / PANEL MOUNT, RMS



Single Element
.01 - 200 VDC Input Range

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
0 - 5 VDC or 4 - 20 mADC outputs
35mm DIN rail or panel mount
Connection diagram printed on case

Regulatory Agencies

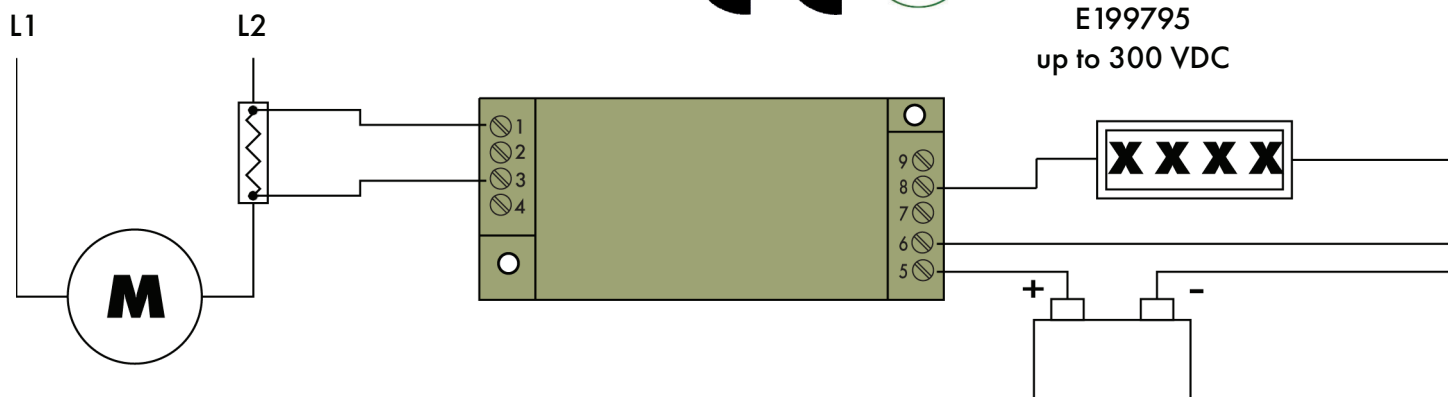
Meets requirement of IEC 61010-1 and BS EN 61010-1



E199795

up to 300 VDC

CR5310 with Resistor Application
is shown below (optional)



PART NUMBERS

Part Number	Output	Description
CR5310	-	Single Element with ± 5 VDC output
CR5311	-	Single Element with ± 10 VDC output
CR5320	-	Single Element with 4 - 20 mADC output

NOTE: CR5300 Series is available with 12VDC Power Supply.

Example Part Number: CR5310-300-12V

Add suffix for input range

.01 - 0-0.01 VDC
.05 - 0-0.05 VDC
.1 - 0-0.1 VDC
1 - 0-1 VDC
5 - 0-5 VDC
10 - 0-10 VDC
50 - 0-50 VDC
150 - 0-150 VDC
200 - 0-200 VDC
other ranges available

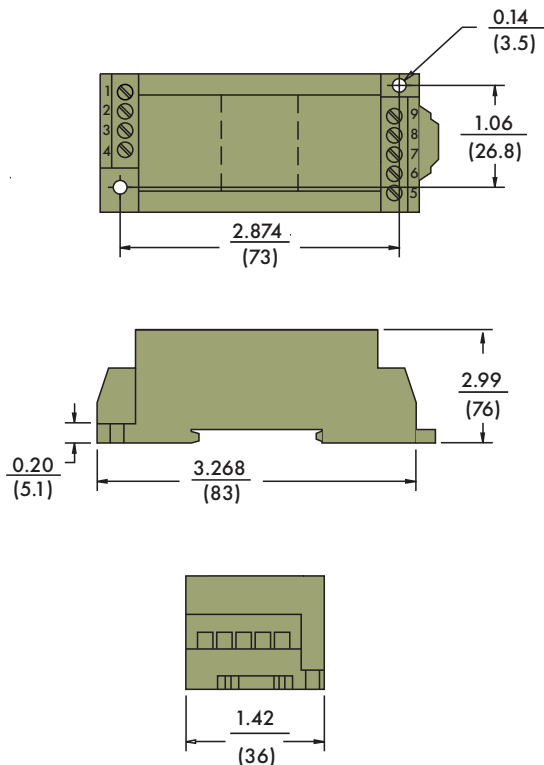
If you need a relay output, use a **CR3395**. See Section E for Details.

DC Voltage Transducer

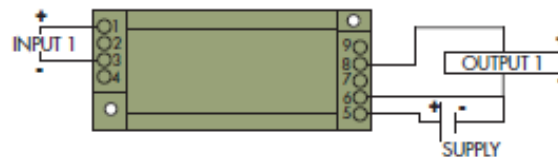
DIN RAIL / PANEL MOUNT, RMS

SPECIFICATIONS

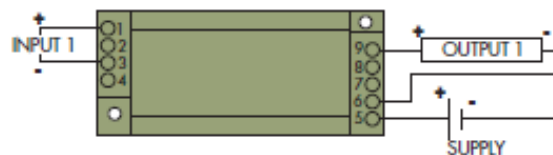
Basic Accuracy:.....	1.0 %	MTBF:.....	Greater than 100 K hours
Linearity:.....	10% to 100 FS	Terminal Block Wire:.....	24 ~ 16 AWG
Thermal Drift:.....	500 PPM/°C	Output Load:.....	0-5 VDC- 2K Ω or greater 4-20 mADC - 0 - 500 Ω
Operating Temperature:.....	0°C to +50°C	Relative Humidity:.....	5% to 95%, Non-Condensing
Installation Category:.....	CAT II	Supply Current:	
Vibration Tested To:.....	IEC 60098-2-2,1995	CR5310:.....	Typical 10mA - Max 15mA
Pollution Degree:.....	2	CR5320:.....	Typical 35mA - Max 60mA
Response Time:.....	250 ms. max.,0-90% FS	Units can incur performance degradation of 0.3 V when subjected to conducted or radiated RF	
Altitude:.....	2000 meters max.	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Insulation Voltage:.....	2500 VDC	Weight:.....	0.5 lbs.
Supply Voltage:.....	24 VDC \pm 10%	Cleaning:.....	Water-dampened cloth
Frequency Range:.....	DC only		



OUTLINE DRAWING



CR5310 5 VDC Output
CR5311 10 VDC Output



CR5320 4 - 20 mADC Output

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.