

OSI SINGLE-PHASE AC RMS CURRENT TRANSDUCER MODEL DCTR-

DIN-RAIL-MOUNTED AC RMS CURRENT TRANSDUCER

FEATURES

- Accurate measurement of the **true RMS** value of the input signal.
- Universal ac/dc instrument power.
- One model for either 1A or 5A input.

APPLICATIONS

- For use in applications where measurement of non-sinusoidal or distorted waveforms is required.
- Applications that require CE or CSA approvals.
- Perfect for installations that require compact packaging.



MODEL SELECTION

| INPUT AC AMPS | STANDARD OUTPUTS MODEL DCTR- | | | |
|------------------|------------------------------|----------|---------|--------|
| | 0-1mAdc | 4-20mAdc | 0-10Vdc | 0-5Vdc |
| 0-1 or 0-5 | 005B | 005E | 005D | 005X5 |

All standard units require 85-230Vac/dc instrument power.

ORDERING INFORMATION

Example: 1 Amp AC Input with
0 to 10Vdc Output.

DCTR-005D

SPECIFICATIONS

INPUT

Current 0-1Aac or 0-5Aac
Frequency Range 50/60Hz
Burden <1VA
Current Overload.... Continuous 120% F.S.
For 1 second 20 X F.S.

DIELECTRIC TEST

Input to Instrument Power/Output/Case 3700Vac
Instrument Power to Output/Case 3700Vac
Output to Case 490Vac

INSTRUMENT POWER

Standard 85-230Vac/dc, 50/60Hz, 3.0VA

OUTPUT

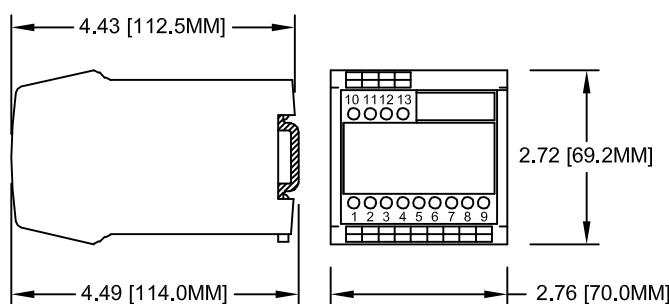
Loading
"B" model (0-1mA output) 0-15kΩ
"D", "X5" models (0-10, 0-5Vdc) 2.5kΩ min.
"E" model (4-20mA) 0-750Ω
Response Time (to 90%) 300ms

ACCURACY ±0.5% F.S. @ 60Hz
Output Ripple <0.5% p.p.

TEMPERATURE & PHYSICAL

Operating Range -10°C to 55°C
Termination Wire size up to 10AWG
Net Weight 0.7 lbs

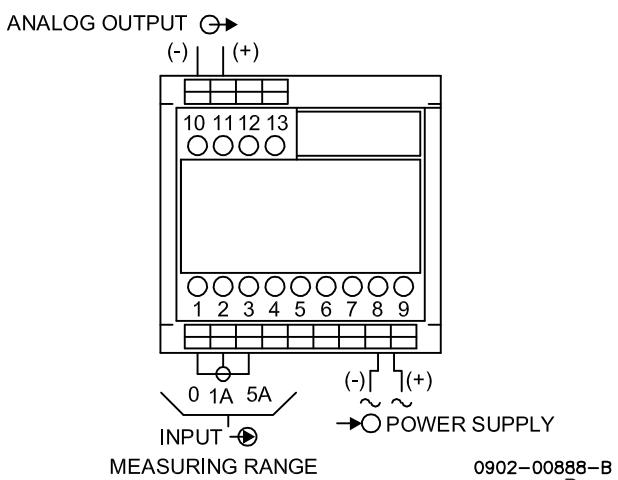
CASE DIMENSIONS



NOTES:

1. DIMENSIONS ARE IN INCHES [MM].
2. MOUNTED ON 35MM TOP-HAT DIN-RAIL.

CONNECTION DIAGRAM



0902-00888-B
Rev --

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