

NON-CONTACT, LOOP-POWERED, TRUE RMS

DESCRIPTION

The CTCR series of transducers provides a non-contact, loop-powered, method of current measurement. The dc output is directly proportional to the true RMS value of ac window current. Measurement ranges of 1A to 100A are available.



**5 YEAR
WARRANTY**

**FEATURES**

- $\pm 0.25\%$ accuracy ($\pm 0.5\%$ on 1A model)
- True RMS measurement
- Non-contact
- Loop-powered
- Ease of Installation

SPECIFICATIONS**INPUT**

Current Range.....	See Table
Over-range w/o damage ..	Continuous 1.3X Rating
	Transient (10s/hr) .. 5X Rating

Frequency Range..... 50-400Hz

OUTPUT

Type	2-Wire 4-20mAdc, loop-powered
Scaling	0-F.S. Input = 4-20mAdc Output
Loading	24Vdc loop power 0-500 Ω
	15Vdc loop power 0-400 Ω
Response	to 90% 250ms, Typical
Ripple	$\leq 1.0\%$ F.S. pk-pk

DIELECTRIC TEST

Conductor Through Window to Output..... 2200Vac

INSTRUMENT POWER

Loop-Powered..... Nominal	24Vdc
Range.....	15-35Vdc

ACCURACY (setpoint, linearity, repeatability)

1A model	
50/60Hz.....	10-100% F.S..... $\pm 0.5\%$ F.S.
all other	$\pm 2\%$ F.S., Typical
5A-100A models	
50/60Hz.....	10-100% F.S..... $\pm 0.25\%$ F.S.
all other	$\pm 1\%$ F.S., Typical

TEMPERATURE

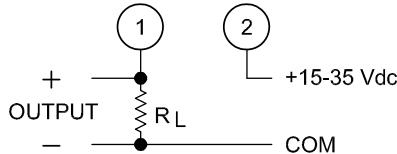
Operating	Range..... -20°C to 60°C
Effect.....	$\pm 1.0\%$ F.S.

PHYSICAL

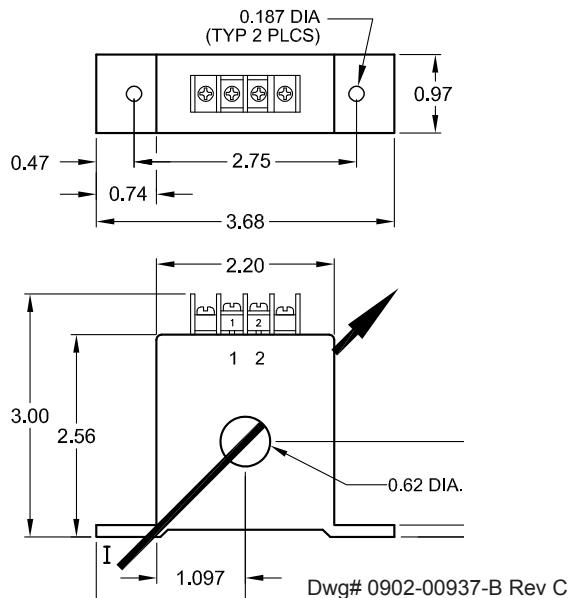
Termination.....	No. 6-32 Screw Terminals
Enclosure	ABS, Black, UL94V-0
Weight	0.2 lb

MODEL SELECTION

INPUT Aac	STANDARD OUTPUTS MODEL CTCR-
	(4-20mAdc loop-powered)
0-1	001E2
0-5	005E2
0-10	010E2
0-15	015E2
0-20	020E2
0-25	025E2
0-30	030E2
0-35	035E2
0-40	040E2
0-50	050E2
0-100	100E2

CONNECTION DIAGRAM**CASE DIMENSIONS**

All dimensions in inches. (Tolerance: ± 0.03 in.)



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