

CURRENT TRANSDUCERS

HALL EFFECT DC CURRENT TRANSDUCER

MODEL CT-4809

CURRENT SENSOR WITH 4-20mA LOOP-POWERED OUTPUT AMPLIFIER

DESCRIPTION

The model CT-4809 is a Hall-effect current sensor with signal conditioning in a single compact package. Hall-effect current measurement is a non-contact technique that measures the magnetizing effects of current flowing in a conductor. Advantages of this technique include high electrical isolation between the measured conductor and transducer output, high over range capability and fast response to input changes. The loop-powered design simplifies installation by reducing instrument power and output signal connections to a simple 2-wire interface.

FEATURES

- Sensor and amplifier in one package
- Split core configuration
- Replaces shunts. No insertion loss.

SPECIFICATIONS

INPUT

Current..... CT-4809..... 0-400A dc
Over Current..... 10 X Rating
Frequency Range dc

OUTPUT

Type 2-wire 4-20mA dc, loop powered
Scaling..... 0-Full Scale input = 4-20mA output
Loading..... 500Ω
Response Time..... <1ms
Secondary Terminal Screw Size #6-32
Recommended Torque 8 in lbs.

DIELECTRIC TEST

Bare conductor through window to output..... 5800Vac

INSTRUMENT POWER

Loop Powered..... 20-30Vdc

ENCLOSURE Noryl SE1X, Black

ACCURACY AND LINEARITY

Standard ±0.5% F.S.

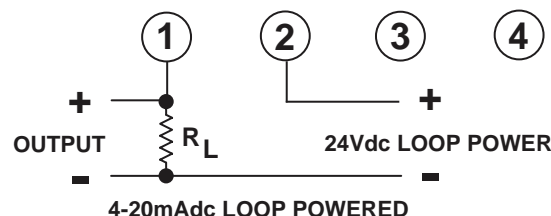
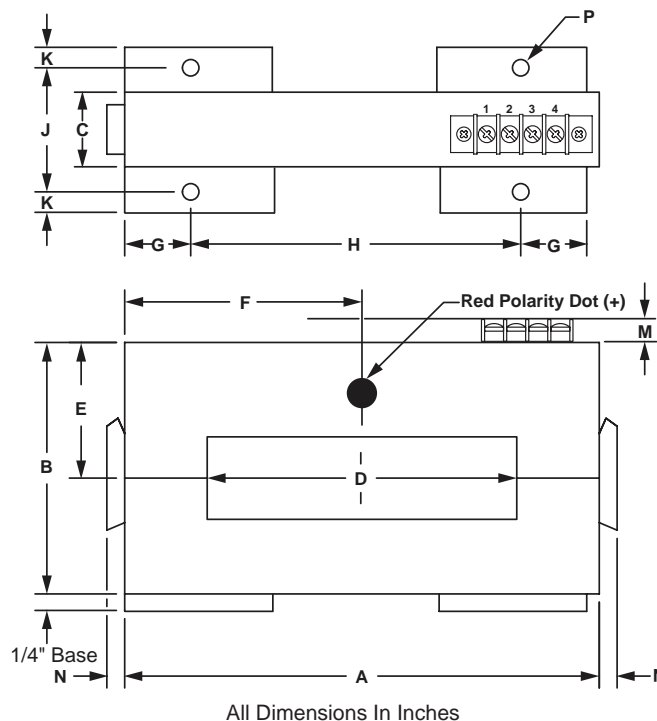
TEMPERATURE

Operating Range -40°C to +60°C
Effect ±0.025%/°C



Made in
U.S.A.

DIMENSIONS AND CONNECTIONS



SENSOR SIZE	SENSOR DIMENSIONS													WT. LBS.
	A	B	C	D	E	F	G	H	J	K	M	N	P	
Z	7 ³ / ₁₆	3 ¹⁵ / ₁₆	1 ⁵ / ₁₆	1 ¹ / ₄ X 4 ¹ / ₂	2 ⁹ / ₆₄	3 ¹ / ₂	1	5	1 ⁷ / ₈	5/16	3/8	5/16	3/16	2.8

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