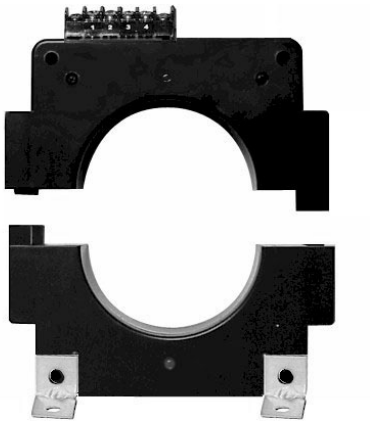
HALL EFFECT CURRENT TRANSDUCER — MODEL CT-4820

Current Sensor with 4-20mA Output

DESCRIPTION

The model CT-4820 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.



Made in U.S.A.

FEATURES

- Sensor and Amplifier in one package
- Output is proportional in direction and magnitude to the current flow through the window. (ac input yields ac output, dc input yields dc output)
- Split core configuration available
- Replaces shunts, no insertion loss

SPECIFICATIONS

INPUT

Current .....0-400Adc or peak ac
Over-Current without damage..... 10 X Rating

OUTPUT

Scaling ..... 0-400Adc Input = 4-20mAdc Output
Load 0-500Ω
Response Time (to 90%).....500µs, typical

INSTRUMENT POWER

Standard.....24Vdc or ac ±10%
Instrument Current .....25mA + load current

DIELECTRIC TEST

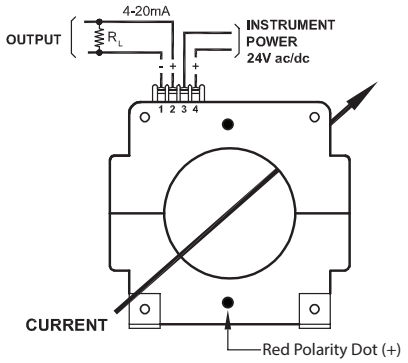
Bare Conductor Through Window to Output ... 3750Vac

ENVIRONMENTAL

Operating Temperature Range.....-40ºC to +60ºC
Temperature Effect.....±0.025%/ºC
Humidity .....0-95%, non-condensing

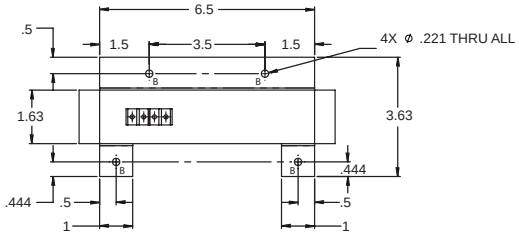
ACCURACY AND LINEARITY .....±0.5% F.S.

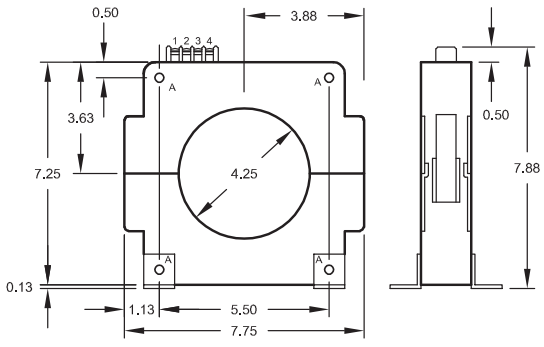
DIMENSIONS AND CONNECTIONS



NOTES:
1. ALL DIMENSIONS IN INCHES
2. TOL: +0.03 UNLESS OTHERWISE STATED

HOLE INFORMATION
A. 0.28 DIA (TYP 4 PLCS)
B. 0.221 DIA (TYP 4 PLCS)





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