

# CURRENT TRANSDUCERS

## HALL EFFECT DC CURRENT TRANSDUCER

MODEL CT-4812

Current Sensor with 4-20mA Output

### DESCRIPTION

The model CT-4812 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.

### 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)
- Replaces shunts. No insertion loss.

### SPECIFICATIONS

#### INPUT

Current ..... Adc or peak ac (see table)  
Over-Current without damage..... 10 X Rating

#### OUTPUT

Scaling..... 0-F.S. 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 ..... -40°C to +60°C  
Temperature Effect ..... ±0.025%/°C  
Humidity ..... 0-95%, non-condensing

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



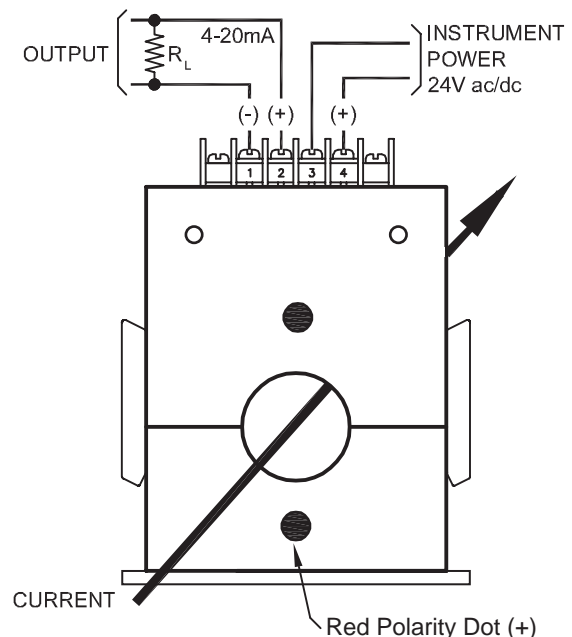
Made in U.S.A.



### MODEL SELECTION

INPUT (Adc)	CATALOG NUMBER
0-400	CT-4812
0-300	CT-4812-3
0-200	CT-4812-2
0-100	CT-4812-1

### CONNECTIONS



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**FLEX-CORE®**  
Div. Morlan & Associates, Inc.  
4970 Scioto Darby Rd. Hilliard, Ohio 43026

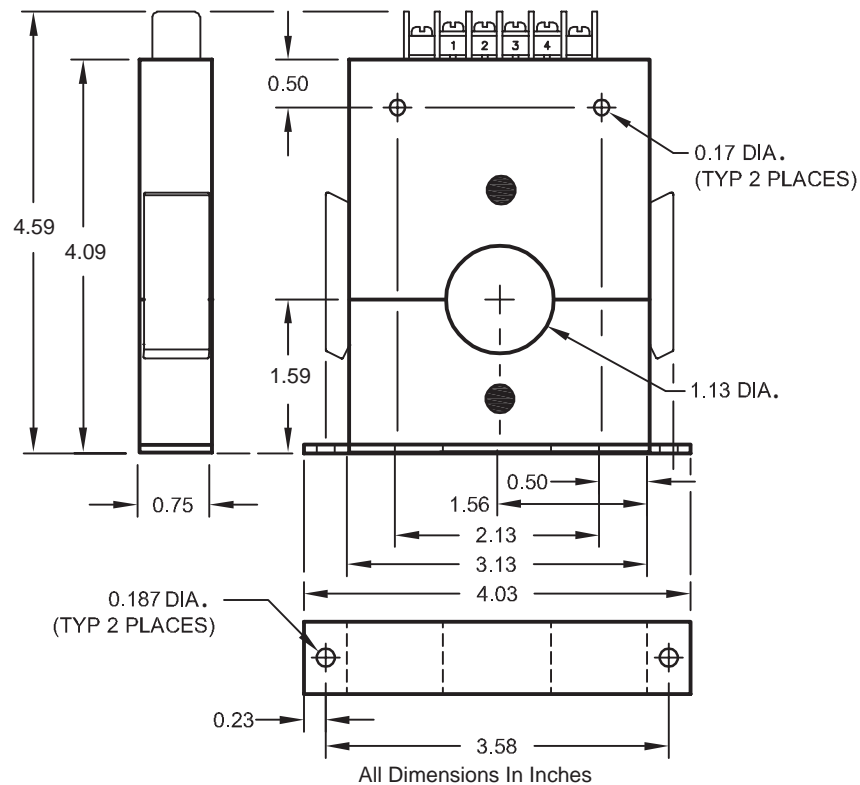
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## DIMENSIONS

MODEL CT-4812



## MOUNTING INSTRUCTIONS

Unit must be installed in a vertical position as shown.

The conductors through the window and the wires attached to the terminal strips must not apply any stress to the latches in any direction.

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