

CURRENT TRANSDUCERS

SPLIT CORE CURRENT TRANSFORMER/TRANSDUCER *MODEL SCT*

DESCRIPTION

The SCT is an integrated split core current transformer and transducer which provides an output proportional to current ranges up to 500 amperes. The SCT has models which provide either a self-powered 0-1mAdc or 0-5Vdc or a loop-powered 4-20mAdc output.

The dc output is proportional to the average absolute value of the input and is calibrated to represent the RMS value. The SCT is capable of accurately measuring ac inputs from 50 to 400Hz.

INPUT AC AMPS	STANDARD OUTPUTS MODEL SCT-		
	0-1mAdc*	4-20mAdc**	0-5Vdc*
0-50	050A	050E2	050CX5
0-100	100A	100E2	100CX5
0-200	200A	200E2	200CX5
0-300	300A	300E2	300CX5
0-400	400A	400E2	400CX5
0-500	500A	500E2	500CX5

FEATURES

- Insensitive to polarity.
- Split Core design for easy installation.
- Accurate and reliable from 50 to 400Hz

APPLICATIONS

- Designed for applications requiring accurate current measurements.



ORDERING INFORMATION

Example: 100Aac Input with
4-20mA Loop Powered Output
SCT-100E2

*0-1mAdc & 0-5Vdc self-powered from measured line.
**4-20mAdc Loop-powered (15-40Vdc supply required)

SPECIFICATIONS

INPUT

Current..... See Table
Frequency Range 50 to 400Hz
Burden 0.5VA max.
Current overload..... 5 X Rating for 10 sec./hr
Dielectric Test...(Input/Output/Case). 1800Vac

INSTRUMENT POWER

*Self-Powered..... 1mAdc & 5Vdc Models
**Loop-Powered..... 15-40Vdc supply required

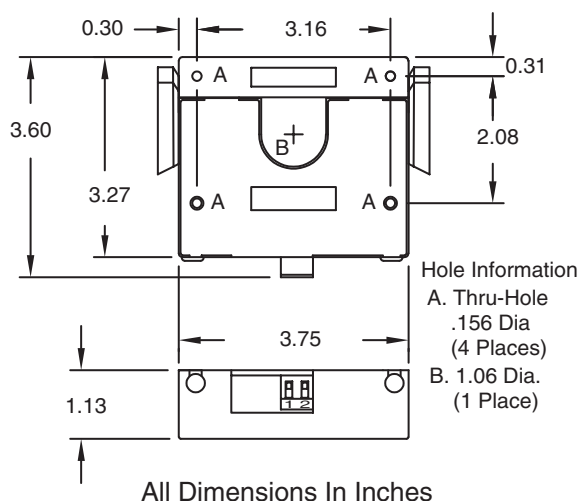
OUTPUT

Output Ripple..... < 0.5% F.S.
Response (90%)..... < 300ms
Output Loading (Ω) 1mA 0-10K Ω
5Vdc > 100K Ω
4-20mA 0-500 Ω

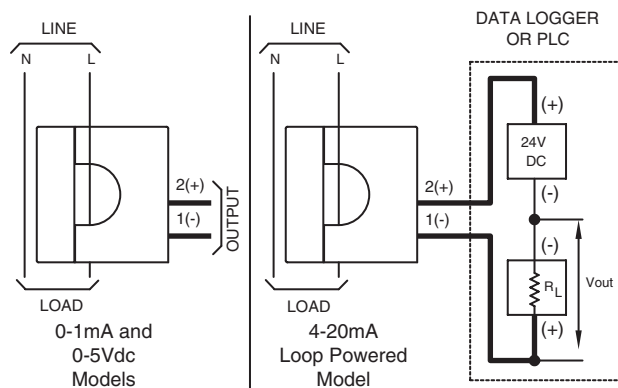
ACCURACY (25° C, 60Hz)..... $\pm 0.5\%$ F.S.
(All conditions) $\pm 0.7\%$ F.S.

Temperature Range -20°C to +60°C
Weight 1.0 Lb.

DIMENSIONS



CONNECTION DIAGRAMS



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