

HALL-EFFECT CURRENT TRANSDUCER MODEL CTLP 25A

LOOP POWERED

DESCRIPTION

The model CTLP-25A 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.



SPECIFICATIONS

INPUT

Current Range.....0-25Adc
Over-range without damage 10X Rated

OUTPUT

Type4-20mAadc, loop-powered
Scaling 0-25Aadc Input = 4-20mAadc Output
Loading (with loop-power = 24Vdc ±15%) 0-500Ω
Response Time (to 90% F.S.) 500μs, Typical

DIELECTRIC TEST

Bare Conductor through Window to Output..... 2200Vac

ACCURACY

Setpoint, Linearity, Repeatability ±2.0% F.S.

INSTRUMENT POWER

Unit is loop-powered (separate inst. pwr. is not req'd)
Voltage24Vdc ±15%
Current20mA + 4-20mAadc Output Current

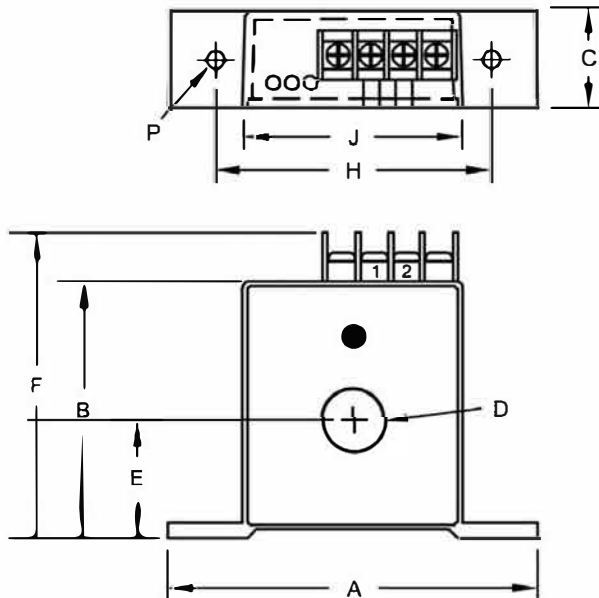
TEMPERATURE

Operating Range.....-40 to +85°C
Effect Maximum ±3.0% F.S.

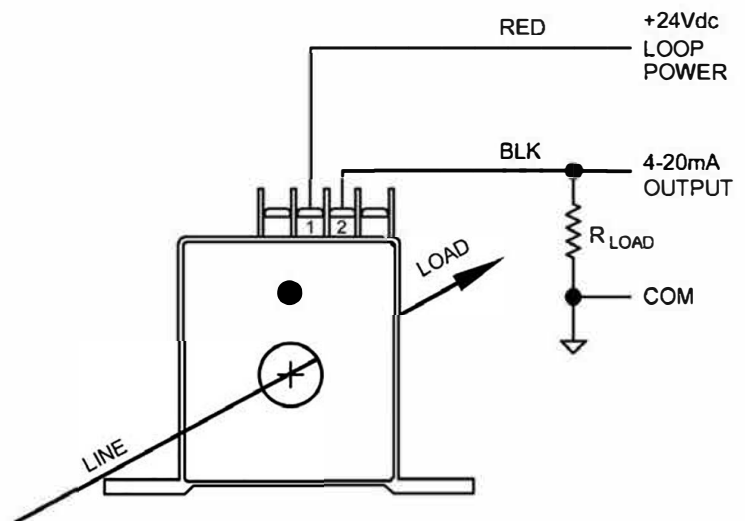
PHYSICAL

Termination.....#6 Screw Terminals
EnclosureNoryl SE1X, Gray
Weight 0.2 lb.
Unit is ruggedized (potted) for resistance to vibration.

CASE DIMENSIONS



CONNECTIONS



'Red Dot' side of unit must face the most positive circuit point.

Dwg. # 0902-00805-B

SENS. SIZE	SENSOR DIMENSIONS (INCHES)														WT. LBS.
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	
B	35/8	29/16	1	5/8	15/32	31/16	NA	23/4	23/16	NA	NA	NA	NA	3/16	0.2

Powertek

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