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
Type ........................................... 4-20mA dc, loop-powered
Scaling .......................... 0-25Adc Input = 4-20mA dc 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

INSTRUMENT POWER
Unit is loop-powered (separate inst. pwr. is not req’d)
Voltage ..................................................... 24Vdc ±15%
Current .................................... 20mA + 4-20mA dc Output Current

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

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

CASE DIMENSIONS

CONNECTIONS

SENS. SIZE

A 35/8
B 29/16
C 1
D 5/8
E 15/32
F 31/16
G NA
H 23/4
I 23/16
J NA
K NA
L NA
M NA
N NA
P 3/16

WT. LBS.

0.2

SENS. DIMENSIONS (INCHES)

12

LINE

+24Vdc LOOP POWER

RED

BLK

4-20mA OUTPUT

LOAD

COM

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

Dwg. # 0902-00805-B

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