

DESCRIPTION

The model CTU-XXXXZ is an open-loop Hall-effect current transducer. Hall-effect sensors detect the strength and direction of the magnetic flux created by current flowing in a conductor. Appropriate signal conditioning provides an output proportional to both the amplitude and direction of the measured current.

Ease of installation in either new or retrofit applications is provided by the compact split-core packaging.

MODEL NUMBER

CTU -

XXXX	Z
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XXXX	INPUT DC Range
0025	± 0 -25A _{dc}
0050	± 0 -50A _{dc}
0100	± 0 -100A _{dc}
0150	± 0 -150A _{dc}
0200	± 0 -200A _{dc}
0300	± 0 -300A _{dc}
0400	± 0 -400A _{dc}
0500	± 0 -500A _{dc}
0600	± 0 -600A _{dc}
0800	± 0 -800A _{dc}
1000	± 0 -1000A _{dc}
1500	± 0 -1500A _{dc}
2000	± 0 -2000A _{dc}

Z	Output Type
B	0- ± 1 mA _{dc}
D	0- ± 10 V _{dc}
X5	0- ± 5 V _{dc}
E	4-20mA _{dc}
EM	4/12/20mA _{dc}



SPECIFICATIONS

INPUT

Current RangeSee model selection
Over-range (w/o damage).....>5kA max.

DIELECTRIC TEST

Input window2200Vac
Inst. Power to output600Vac

INSTRUMENT POWER

Voltage12V_{dc}, ± 5 %
-24 option24V_{dc}, ± 5 %
Current ≤ 100 mA_{dc}

TEMPERATURE

Operating range-40°C to +85°C
Temperature effect ± 0.025 %/°C

OUTPUT

Type See Table
Scaling See Table
Loading Model B 0-10k Ω
 Models D & X5 ≥ 2 k Ω
 Models E & EM 0-300 Ω
Response time (90%)5ms typical

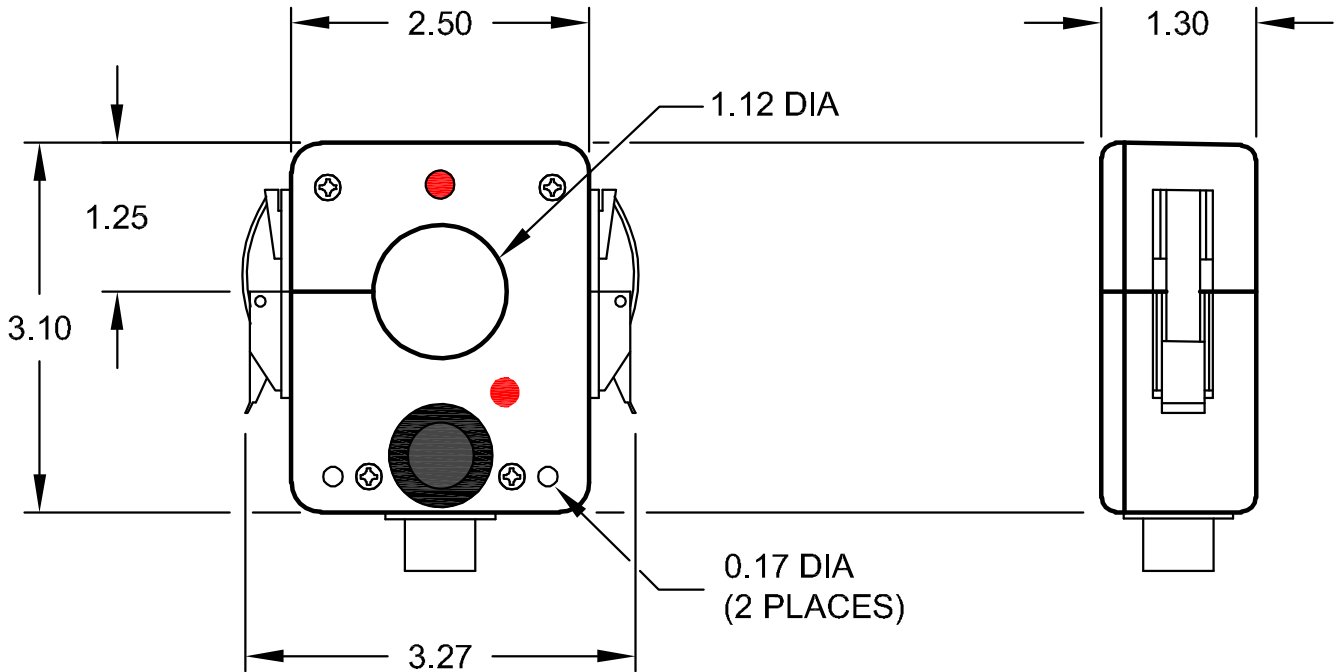
ACCURACY

Setpoint, Linearity & Repeatability ± 0.5 % F.S.
Setpoint for 0025Z ± 1.0 % F.S.
Zero Offset (after 10X over-range) .. ± 0.04 % F.S.

PHYSICAL

Operating Humidity0-95% non-condensing
Weight(including cable) ≤ 0.75 lb.
Termination Supplied with 8 ft., 4-conductor,
 22AWG, detachable cable

CASE DIMENSIONS

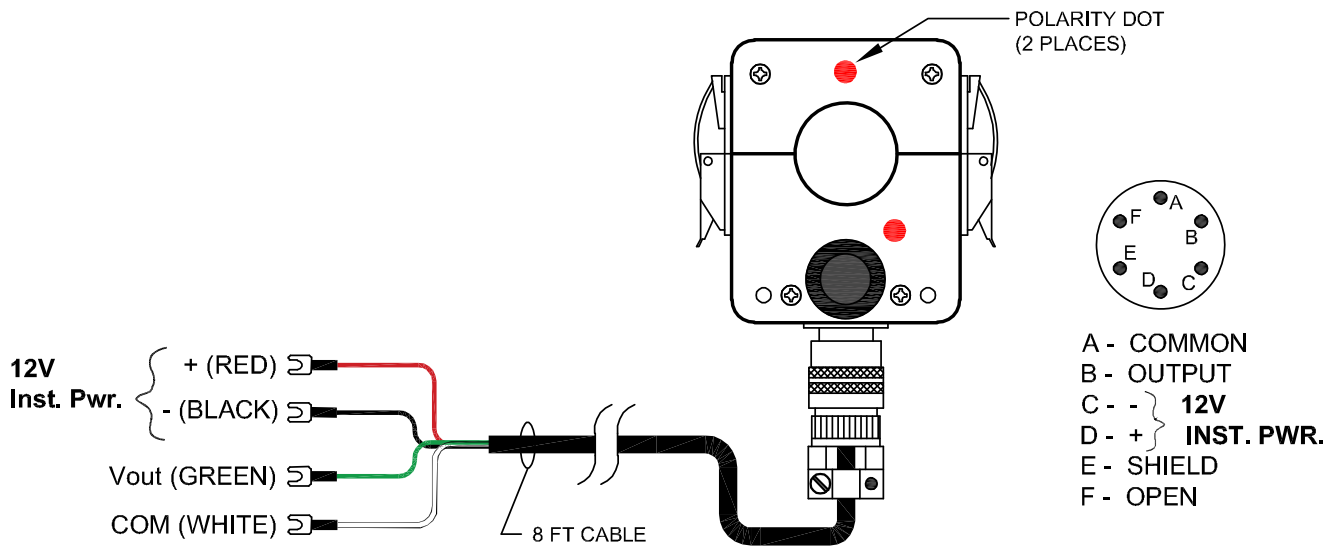


DIMENSIONS ARE IN INCHES

TOLERANCE: ±0.03 IN

Dwg# 0902-01037-B Rev-B

CONNECTION DIAGRAMS



NOTE: "Red Dot" side of transducer must face the most positive circuit point for output polarity as shown.

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