

Fluxgate-Closed Loop

DESCRIPTION

The model CTU-4837 is a closed-loop fluxgate current transducer. The 2 core fluxgate principal is used to detect the strength and direction of the magnetic flux created by current flowing in a conductor. Signal conditioning provides an output proportional to both the amplitude and direction of the measured current.

**SPECIFICATIONS****INPUT**

Current	Range	0±0.4Adc
	Over-range (with proportional output).....	±0.8Adc
	Over-range (without damage).....	±40Adc

OUTPUT

Type	±5.0Vdc
Scaling	-0.4/0/+0.4Adc Input = -5/0/+5Vdc Output
Loading	10kΩ
Response Time to 90% of input step	≤20ms
Frequency Bandwidth (-3db).....	DC to >18kHz

DIELECTRIC TEST

Conductor through Window to Output.....	3500Vdc
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ACCURACY

Setpoint, Linearity & Repeatability	<±25mV
Electrical Offset	<±75mV
Zero Offset	I = ±0.4Adc Vos = ±2mV I = ±40Adc Vos = ±20mV
AC Ripple	<13mVac
Position (window) sensitivity relative to center reading	±3mV

INSTRUMENT POWER

Voltage	±15Vdc ±5% (16.5Vdc max)
Current	≤45mAdc

TEMPERATURE

Operating Range	-40 to 85°C
Effect	(-40 to +85°C) ..≤1.0mV/°C

PHYSICAL

Operating Humidity	0-95% non-condensing
Weight	17gm Typical
Termination.....	PCB mounting pins
Shock & Vibration.....	TBD

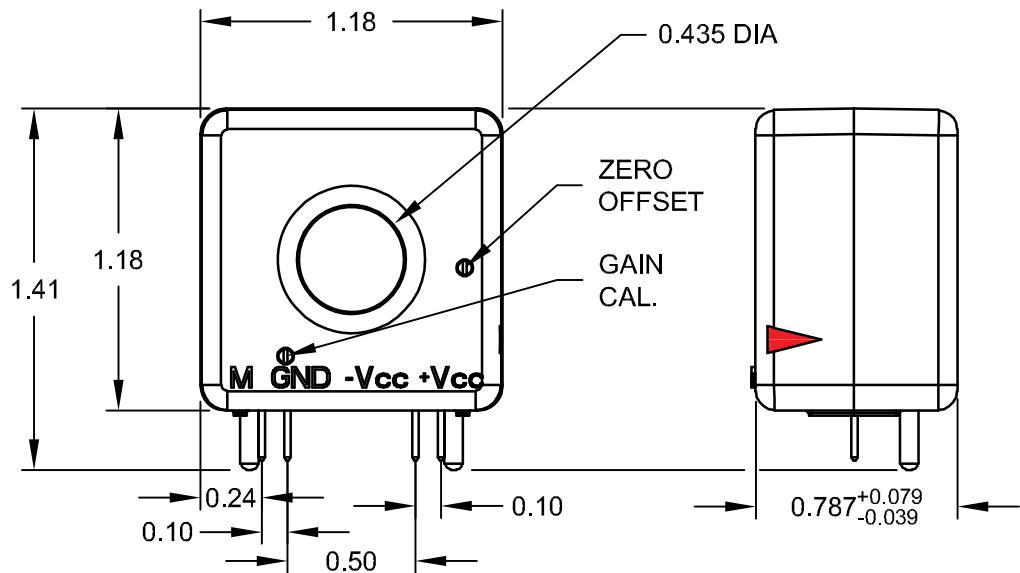
ENCLOSURE Photopolymer Resin FLGPCL03
(See page 2 for connection and dimension information.)

OHIO SEMITRONICS, INC.

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OSI CONNECTIONS & CASE DIMENSIONS MODEL CTU-4837-PROTO

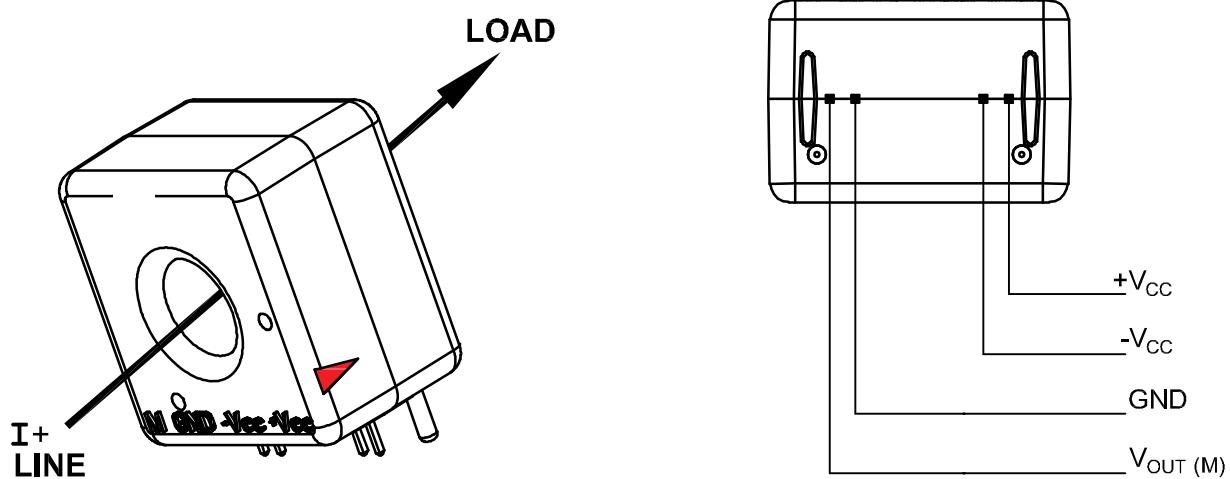
CASE DIMENSIONS



ALL DIMENSIONS IN INCHES.
TOLERANCE: ± 0.03 INCHES.
UNLESS OTHERWISE INDICATED.

DWG# 09C
Dwg# 0902-01017-B Rev-B

CONNECTION DIAGRAMS



Dwg# 0902-01017-B Rev-B

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