

0.01% ACCURACY

DESCRIPTION

The UFG-201 solid-core current transducer provide ultra-high accuracy in a convenient compact enclosure. Unit operates bidirectionally and provide an output that is a scaled replica of the input.



FEATURES

- Ultra-high accuracy of $\pm 0.01\%$ error, max.
- Nearly half the size of competitive units
- Rugged construction

APPLICATIONS

- Precision measurements
- Medical devices
- Electric vehicle battery packs

MODEL SELECTION

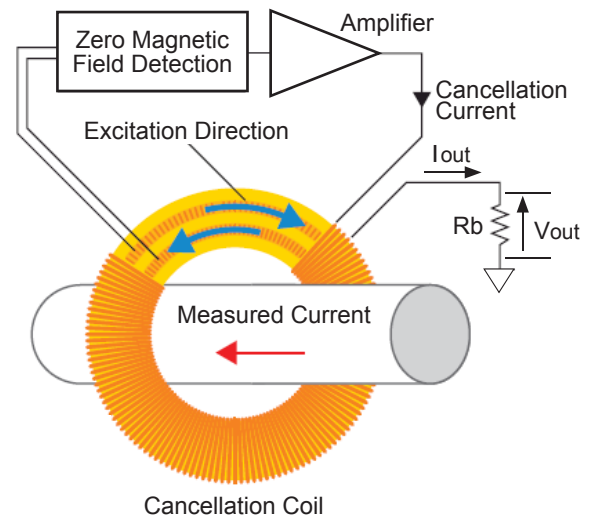
INPUT (A dc/pk ac)	MODEL	OUTPUT
0 to ± 200	UFG-201	0 to ± 100 mA

ORDERING INFORMATION

Example: 0 to ± 200 A Input
with 0 to ± 100 mA Output

UFG-201

STRUCTURE



SPECIFICATIONS

INPUT

Current See Table
Bandwidth dc to 10kHz

OUTPUT

Current See Table
Voltage ± 5 V max.
Response 1 μ s
Load Resistor (R_b) 50 Ω , max.

NOTE: Resistors similar to the Vishay VPR221 series with 0.01% accuracy and ≥ 2 W rating are required for rated transducer accuracy. (not provided)

ACCURACY

Setpoint, repeatability $\pm 0.01\%$ F.S.
Linearity $\pm 0.01\%$ F.S.
Offset ± 10 μ A
Hysteresis 1ppm

INSTRUMENT POWER

Voltage ± 15 Vdc, $\pm 5\%$
Current 35mA dc plus output current

TEMPERATURE & ENVIRONMENTAL

Operating Range -30 to 80°C
Effect
Operating Humidity 0-95% non-condensing

PHYSICAL

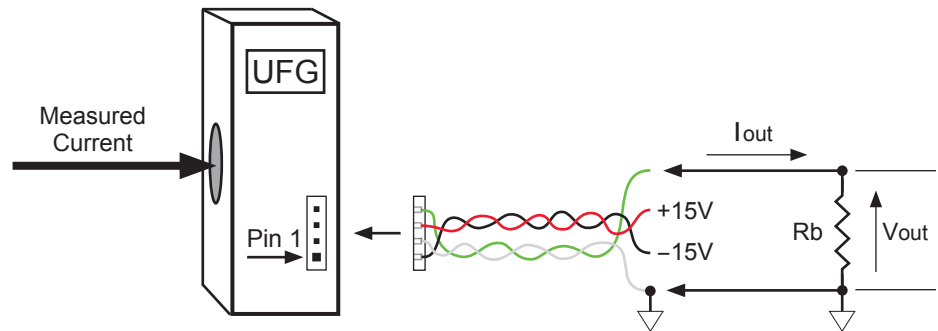
Size 1.38in. X 1.38in. X 0.79in., 0.59in. dia.
Weight 1.1oz (30g)

Termination

4-pin, male EHR-4 (JST Mfg. Co., Ltd.)
Cable... 12in. detachable pigtail with mating connector
OSI P/N: 22712

CONNECTION DIAGRAM

CONNECTIONS		
PIN	SIGNAL	COLOR
4	Output	Green
3	+15V	Red
2	GND	White
1	-15V	Black

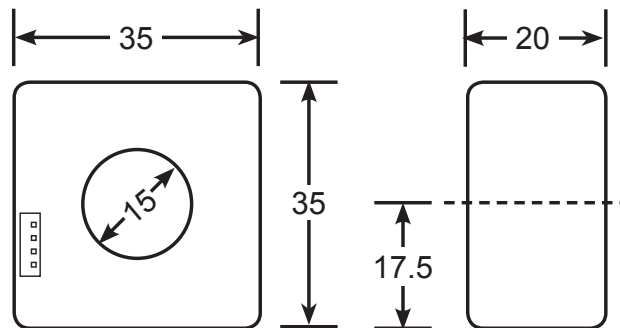


Notes:

1. Use twisted-pair cable for output connections. (Detachable 12in. pigtail with mating connector is provided with unit.)
2. Place input cable in center of the sensor window. Multiple wires should be banded together then placed in center of window.
3. See Specification section for details on required mating connector.

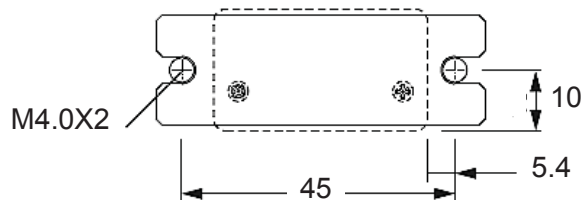
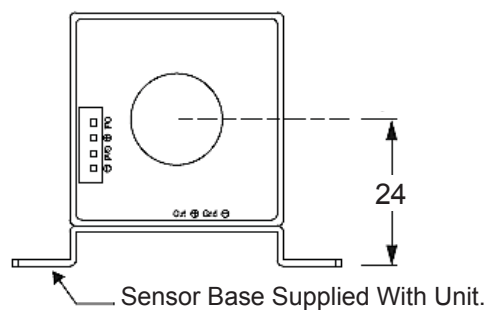
DIMENSIONS

UFG-201



MOUNTING DIMENSIONS

**MOUNT ONLY ON
NON-MAGNETIC
MATERIAL!**



ALL DIMENSIONS: mm