

0.01% ACCURACY

DESCRIPTION

The UFG series solid-core current transducers provide ultra-high accuracy in a convenient compact enclosure. Units operate 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

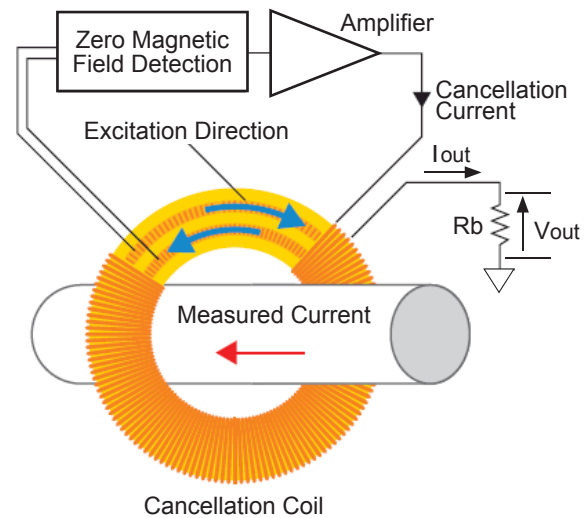
INPUT (A dc/pk ac)	MODEL	OUTPUT
0 to ± 200	UFG-201	0 to ± 100 mA
0 to ± 600	UFG-601	0 to ± 300 mA

ORDERING INFORMATION

Example: 0 to ± 600 A Input with 0 to ± 300 mA Output

UFG-601

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) ... UFG-201 50 Ω , max.
UFG-601 16.666 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 UFG-201 $\pm 10 \mu$ A
UFG-601 $\pm 30 \mu$ A
Hysteresis 1 ppm

INSTRUMENT POWER

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

TEMPERATURE & ENVIRONMENTAL

Operating Range -30 to 80 $^{\circ}$ C
Effect
Operating Humidity 0-95% non-condensing

PHYSICAL

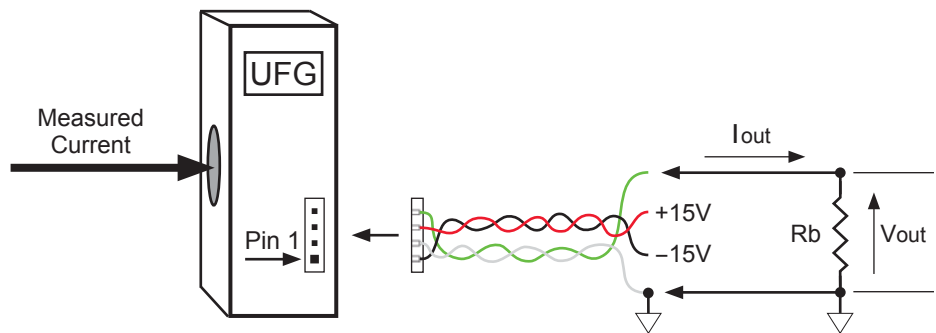
Size UFG-201 ... 1.38in. X 1.38in. X 0.79in., 0.59in. dia.
UFG-601 .. 2.36in. X 2.36in. X 1.61in., 1.18in. dia.
Weight ... UFG-201 1.1oz (30g)
UFG-601 0.6lb (0.3kg)

Termination

UFG-201 ... 4-pin, male ... EHR-4 (JST Mfg. Co., Ltd.)
UFG-601 ... 4-pin, male ... XHP-4 (JST Mfg. Co., Ltd.)
Cable ... 12in. detachable pigtail with mating connector
UFG-201 OSI P/N: 22712
UFG-601 OSI P/N: 22713

CONNECTION DIAGRAM

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

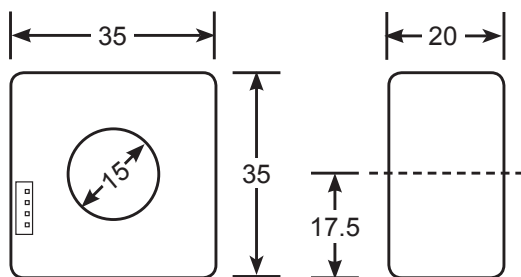


Notes:

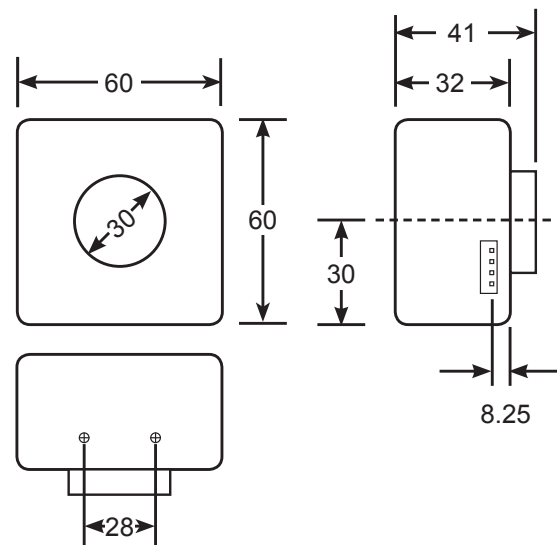
1. Use twisted-pair cable for output connections. (Detachable 12in. pigtail with mating connector is provided with unit.)
2. Place input cable in center of the sensor window. Multiple wires should be banded together then placed in center of window.
3. See Specification section for details on required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

DIMENSIONS

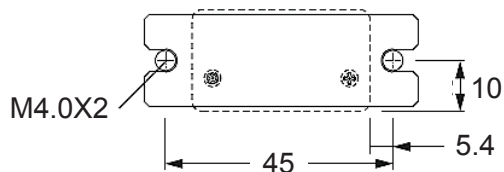
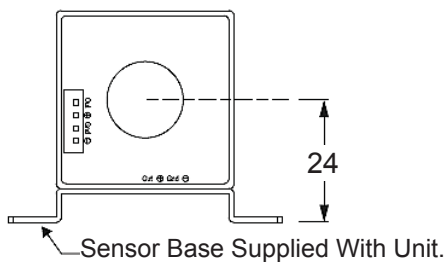
UFG-201



UFG-601

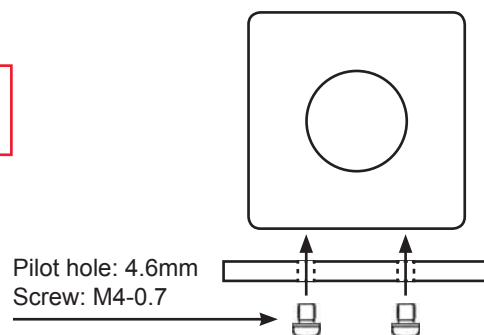


MOUNTING DIMENSIONS



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

MOUNTING DIMENSIONS



ALL DIMENSIONS: mm