

Velocity Sensor

5485C (375°C) High Temperature

fixed cable version

connector version



By employing a zero friction coil suspension, these sensors provide accurate, repeatable vibration measurements over wide ranges of amplitude and frequency. They are constructed for continuous operation at elevated temperatures. The coil bobbin is suspended by two non-twisting, circular spider springs that provide a clean frequency response. Damping is electromagnetic and purely viscous. No friction prone air damping is employed. This allows the detection of small vibrations at low frequencies. Available with fixed armored cable or 2 pin connector (requires mating Model 4850-XXX cable), the sealed stainless steel case and rugged internals insure durability in the most hostile environments.

SEISMIC PRODUCTS

Features

- Self generating, no power required
- Stainless steel housing
- Zero friction - infinite resolution

Applications

- Large industrial gas turbines
- Furnace fan monitoring
- Hazardous areas

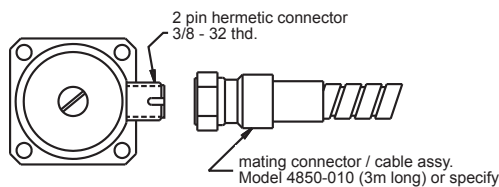
5485 is UL intrinsically safe for Class 1, Grps (A-D), Div. 1; Non-incendive for: Class 1, Grps. (A-D), CSA Explosion-proof for: Class 1, Grps, (A-D), Div. 1; IEC intrinsically safe for: EEx nA IIC T6 Tamb: -54°C to 375°C.

Specifications

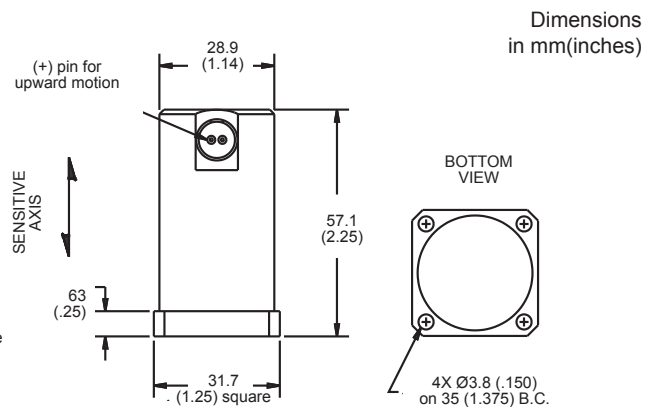
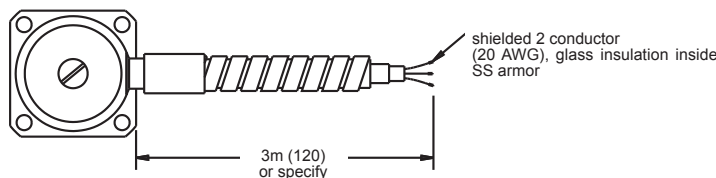
Axis Orientation:	Any
Sensitivity:	See "How to Select"
Sensitivity vs. Temp:	less than .02%/°C
Cross Axis Sensitivity:	less than 10%
Service Temperature:	See How To Select
Frequency Response:	15 Hz to 2000 Hz
Acceleration Limits:	0 to 50 g
Displacement Limits:	1.8 mm (70 mils) pk-pk
Case To Coil Isolation:	
at 20°C:	100 megohms, min.
at 200°C:	10 megohms, min.
at 375°C:	1.0 megohm, min.
Case:	Stainless steel; sealed

Weights, Dimensions & Wiring

CONNECTOR CONFIGURATION



FIXED CABLE CONFIGURATION



Weights:

Connector version: 0.2 kg (0.5 lb)
for Fixed Cable: add 0.2 kg/m (0.5 lb/3 ft)

