

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.

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%/°CCross Axis Sensitivity:less than 10%Service Temperature:See How To SelectFrequency Response:15 Hz to 2000 Hz

Acceleration Limits: 0 to 50 g

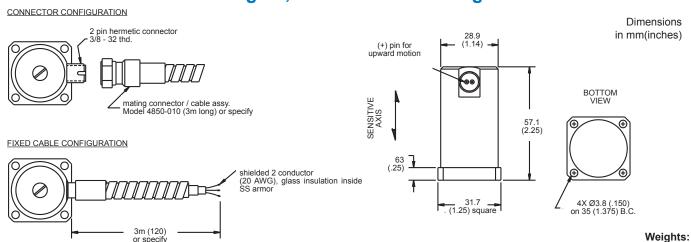
Displacement Limits: 1.8 mm (70 mils) pk-pk

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

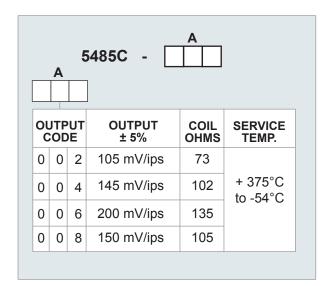


Connector version: 0.2 kg (0.5 lb) for Fixed Cable: add 0.2 kg/m (0.5 lb/3 ft)



How To Select...Connector Versions*

How To Select...Fixed Cable Versions**



5485C - A B A B A B A B A B A B A B A B B A B B A B B B A B							
	OUTPUT CODE		CABLE LENGTH (IN FEET)	OUTPUT ± 5%	COIL	SERVICE TEMP.	
0	0	1	XXX	105 mV/ips	73		
0	0	3	example: 010 = 10 ft. (3 m)	145 mV/ips	102	+ 375°C to -54°C	
0	0	5		200 mV/ips	135		
0	0	7	60 FT. (18.3 m) MAX.	150 mV/ips	105		

*REQUIRES MODEL 4850-XXX High Temp Armored Cable Assembly (375 °C max.). Specify -XXX length in feet. Example: 4850-010 = 10 FT (3 m) Cable. Lengths above 20 feet must be in even increments ONLY. Example: 4850-022, 4850-024, etc.

Mounting Adapters

STUD	BUSHING
8531-001	1/4"-28 mount adaptor - loose with screws and stud (0.2 kg)
8531-002	Same as -001 except shipped attached to sensor.

^{**}Cable lengths must be even increments only (002, 004, etc).