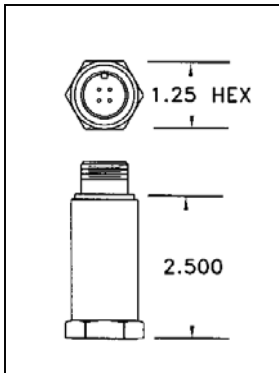


- *Monitor & Trend Bearing Performance
- *4-20 mA Output
- *Velocity Sensing
- *Selectable Ranges
- *Electrically Isolated
- *Reverse Polarity Protection

The Columbia Series 8073 Solid-State Loop-Powered Vibration Sensor is specifically designed for industrial machinery monitoring. The sensor is designed to continuously measure vibration and transmit the data directly into a PLC, providing level monitoring, alarm and machinery shutdown capabilities. The sensor provides an isolated 4 to 20 mA output that is proportional to vibration.

The vibration output is expressed in velocity. Measurements can be made over a frequency range of from 2 to 2,000 Hz over an operating temperature range of -20 to +85 degrees C.

The sensor is case isolated and the output is accessible via a standard 4-pin connector. The Model 8073 is mounted with a removable 1/4-28 mounting stud. *Consult the factory for customized versions of this sensor.*



Output Connector Pin Functions:

- Pin A – Vibration Loop (+)
- Pin B – Vibration Loop (-)
- Pin C – Case Ground
- Pin D – Open

Accessories Supplied:

- (1) 1/4-28 x 0.250" L Mounting Stud, 18-8 St. Stl.
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.

Ordering Information:

MODEL 8073 - 0 TO X IPS

Full Scale Range X (Required)

Specifications

Vibration Output	8073
Response Characteristic	Velocity, Average-Responding
Full Scale Range	Selectable: 0 To 1 In/Sec Peak Thru 0 To 50 In/Sec Peak
Accuracy	+/-3% @ 25 Deg C +/-5% Over Temperature
Frequency Response	+/-5%, 2 Hz To 2KHz
Output Ripple	<1% of Reading @ 10 Hz
Output Rise / Fall Time	1 Second, 10% To 90%
General	
Minimum Operating Voltage	10 Volts DC
Maximum Operating Voltage	36 Volts DC
Isolation	100M Ohm Min Circuit To Circuit and Circuit To Case
Reverse Polarity	Circuit Protected
Operating Temperature	-20 Deg C To +85 Deg C

Physical

Size	1.250 In Hex x 3.35 In L (3.18 cm Hex x 8.51 cm L)
Weight	230 Grams
Case Material	Stainless Steel
Electrical Interface	4-Pin Connector, MIL-C-5015 (Mates with Connector MS3106A-14S or Equiv.)
Mounting	1/4-28 UNF-2B x 0.250 Tapped Base