

Vibration Gauges



VB-330SCB

Industrial grade, screw lock-type, stainless steel, triaxial, high frequency vibration gauge (separation cable)

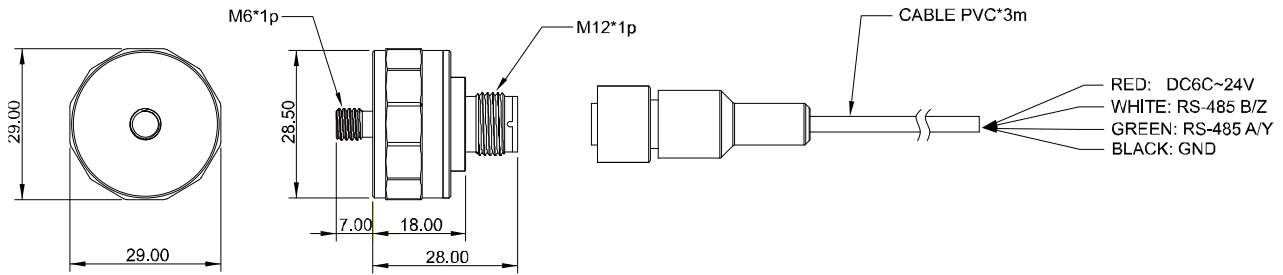


Features

1. Integrated design, with sensor and transducer in one mini package. The output signals are already industrial RS-485. The signal contents include :
 - a. 3-axis Velocity, Acceleration RMS
 - b. 3-axis Velocity, Acceleration FFT
 - c. 3-axis Displacement, peak-peak
 - d. Raw Data
2. Open Signal Protocols, can be directly connected to 3rd Party PLC and DCS, without the need of DAQ.
3. The stainless steel used is 316L grade, (the hardest metal grade) with high installation torque of 12 N-m, better than industry standard 6-8 N-m.
4. The plug-in cable can be transported separately from the gauge mounted on the motor, which is extremely convenient.

Dimension

29mm × 29mm × 35mm



Specification

Sensor Type	3-axis Digital MEMS Sensor
Velocity Range	0-300 mm/sec
Frequency Response	1 Hz to 6400 Hz, ± 3 dB
Acceleration Range	± 2 g, ± 4 g, ± 8 g, ± 16 g
Sensitivity	4096 LSB/g(@8g)
Sensitivity Error	5%(max) @100Hz
Temperature Response	$\pm 1\%$, $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$
Nonlinearity	$\pm 0.5\%$
Cross-Axis Sensitivity	$\pm 2.0\%$ typical, $\pm 3.5\%$ max
Operating Temperature	$-40 \sim 105^{\circ}\text{C}$
Shock limit	10000g
Noise	110 $\mu\text{g}/\sqrt{\text{Hz}}$
Output	Raw Data, Velocity (r.m.s.), Acceleration (r.m.s.), Displacement (peak to peak)
FFT	Velocity, Acceleration
Case Material	316L Stainless Steel
Installation Torque	12Nm (Max.)
Connector Orientation	Top
Interface	M12 Connector, 4 wires (RS-485 * 2 wires + Power), Modbus RTU
Supply Voltage	6 ~ 24 V DC
Data Format	9600 or 230400 bps, N 8 1 (no parity bit, 8 data bit, 1 stop bit)
Weight	48g
Ingress Protection Rating	IP67
Installation Method	Screw-Lock (M6)