

MCB361 Series

Low Cost, Low Profile Accelerometer with Integrated Rotating Mounting Base, Side Exit Molded Integral Cable, 10 mV/g, $\pm 15\%$



Product Features

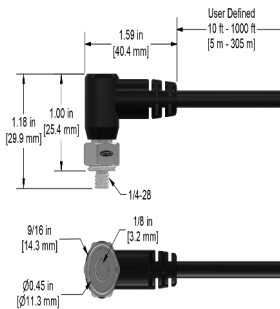
Features an Integrated, Rotating Mounting Base for Easy Sensor Positioning

- ▶ Designed for Low-Profile, Permanent Monitoring Applications
- ▶ IP68 Rated

MCB361-2A

CB110 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MCB361	M/MCB361	Environmental		
Sensitivity ($\pm 15\%$)		10 mV/g	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	30-840,000 CPM	0.5 Hz-14 kHz	Maximum Shock Protection		10,000 g, peak
Dynamic Range		± 500 g, peak *Vsource $\geq 22\text{V}$, 12Vbias	Electromagnetic Sensitivity		CE Approved
Transverse Sensitivity		$\leq 5\%$	Sealing		IP68
Electrical			SIL Rating		SIL 2
Settling Time		< 2 Seconds	Physical		
Voltage Source		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		100 $\mu\text{g}/\sqrt{\text{Hz}}$	Weight	0.7 ounces	20 grams
Spectral Noise @ 100 Hz		19 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Base		316L Stainless Steel
Spectral Noise @ 1000 Hz		5 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Thread		1/4-28
Output Impedance		< 100 ohm	Mounting Torque	1.5 - 2.5 ft. lbs	2.0 to 3.4 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
Case Isolation		$> 10^8$ ohm	Calibration Certificate		CA10

Typical Frequency Response

