

MEB361 Series

Low Cost, Low Profile Accelerometer with Integrated Rotating Locking Nut, Side Exit Molded Integral Cable, 100 mV/g, $\pm 15\%$



VIBRATION ANALYSIS HARDWARE



Product Features

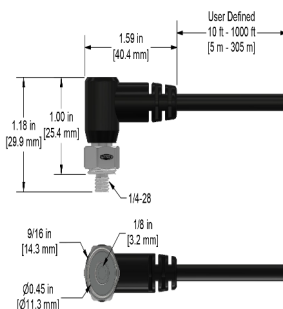
Features an Integrated, Rotating Mounting Base for Easy Sensor Positioning

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

MEB361-2A

CB110 Integral Cable

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MEB361	M/MEB361	<u>Environmental</u>		
Sensitivity ($\pm 15\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	30-660,000 CPM	0.5 Hz-11 kHz	Maximum Shock Protection	10,000 g, peak	
Dynamic Range	$\pm 80\text{g}$, peak *Vsource $\geq 22\text{V}$, 12Vbias		Electromagnetic Sensitivity	CE Approved	
Transverse Sensitivity	$\leq 5\%$		Sealing	IP68	
<u>Electrical</u>			Submersible Depth	200 ft.	61 m
Settling Time	< 2 Seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	30 $\mu\text{g}/\sqrt{\text{Hz}}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	0.7 ounces	20 grams
Spectral Noise @ 1000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Base	Polyurethane Molded with 316L Stainless Steel Base	
Output Impedance	< 100 ohm		Mounting Thread	1/4-28	
Bias Output Voltage	10-14 VDC		Cable Jacket Diameter	0.175 in. (4.5 mm)	
Case Isolation	>10 ⁸ ohm		Cable Jacket Material	Polyurethane	
			Cable Conductor	20 AWG Twisted Shielded Pair	
			Resonant Frequency	1,200,000 CPM	20 kHz
			Mounting Torque	1.5 - 2.5 ft. lbs	2.0 to 3.4 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

