

MEB210 Series

Lightweight, Cost Effective Molded Sensor, Top Exit Molded Integral Cable,
10-32 Mounting, 100 mV/g, $\pm 10\%$



CE



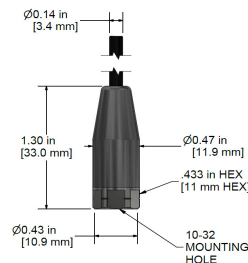
Product Features

- ▶ Nylon Overmolded Accelerometer
- ▶ IP68 Rated
- ▶ To Mount Utilizing an Adhesive Mounting Pad, CTC Recommends Purchasing MH108-3B (1/4-28 to 10-32 Adapter Stud) with MH130-4A (0.75" OD Mounting Disk with 1/4-28 Blind Tapped Hole)

MEB210

CB127 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MEB210	M/MEB210	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3dB$)	30-900,000 CPM	0.5 Hz-15 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response ($\pm 10\%$)	60-600,000 CPM	1 Hz-10 kHz	Electromagnetic Sensitivity	CE Approved	
Dynamic Range	$\pm 80g$, peak *Vsource $\geq 22V$, 12Vbias		Sealing	IP68 Integrally Molded Cable	61 m
Transverse Sensitivity	$\leq 5\%$		Submersible Depth	200 ft.	
<u>Electrical</u>			SIL Rating	SIL 2	
Settling Time	< 2 Seconds		<u>Physical</u>		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	10 grams
Spectral Noise @ 10 Hz	30 $\mu g/\sqrt{Hz}$		Weight	0.35 oz	
Spectral Noise @ 100 Hz	4 $\mu g/\sqrt{Hz}$		Mounting Base	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 $\mu g/\sqrt{Hz}$		Mounting Thread	10-32 UNF	
Output Impedance	< 100 ohm		Cable Jacket Diameter	0.14 in (3.6 mm)	
Bias Output Voltage	10-14 VDC		Cable Jacket Material	Polyurethane	
Case Isolation	>10 ⁸ ohm		Cable Conductor	26 AWG Twisted Shielded Pair	
			Resonant Frequency	2,640,000 CPM	44 kHz
			Mounting Torque	1.5 - 2.5 ft. lbs	2.0 to 3.4 Nm
			Mounting Hardware Supplied	10-32 Stud	M5 Stud
			Calibration Certificate	CA10	

Typical Frequency Response

