

LP304-M12E Series



Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Acceleration, Side Exit 4 Pin M12 Connector

VIBRATION ANALYSIS HARDWARE



Product Features

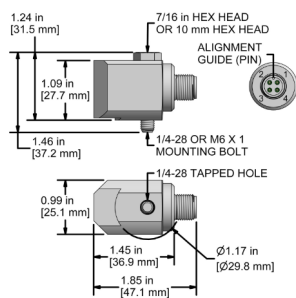
4-20 mA Current Proportional to Vibration in Acceleration

- ▶ Peak and RMS Outputs Available
- ▶ Transmits Signals Over Long Distances with No Signal Loss
- ▶ Outputs to PLC, DCS, SCADA

-LP304-XXX-M12E

4 Pin M12 Connector

Connector Pin	Polarity
1	(+) Loop Power
2	(-) Loop Power Return
3	Not Used
4	Not Used



Built To Order

Specifications			Standard			Metric		
Part Number			LP304-M12E			M/LP304-M12E		
Tolerance: 4 mA			(± 10%)					
Tolerance: 20 mA			(± 10%)					
Electrical								
Settling Time			<30 Seconds					
Voltage Source			15-30 VDC					
Case Isolation			>10 ⁸ ohm					
Environmental								
Operating Temperature Range			-4 to 212°F			-20 to 100°C		
Electromagnetic Sensitivity			CE					
Sealing			Welded, Hermetic					
Specifications			Standard			Metric		
Physical								
Sensing Element			PZT Ceramic					
Sensing Structure			Shear Mode					
Weight			4.7 oz			134 grams		
Case Material			316L Stainless Steel					
Mounting Thread			1/4-28					
Connector (Non-Integral)			4 Pin M12					
Mounting Torque			2 to 5 ft. lbs.			2,7 to 6,8 Nm		
Mounting Hardware Supplied			1/4-28 Captive Bolt			M6x1 Captive Bolt		
Calibration Certificate			Current Output @ 100 Hz					

Ordering Information

LP304 -			-				Integral Options	
Bolt Type	Measurement Range	Type	Frequency Range $\pm 3\text{dB}$	Style		/	/	
Blank = ¼-28 M = M6x1	0 = 0-1 g 2 = 0-2 g 5 = 0-5 g 10 = 0-10 g 20 = 0-20 g	P = Peak R = RMS	1 = 600-60000 CPM (10-1000 Hz) 2 = 180-150000 CPM (3-2500 Hz) 3 = 180-600000 CPM (3-1000 Hz) 4 = 180-300000 CPM (3-5000 Hz) 5 = 180-600000 CPM (3-10000 Hz)	1E = 2 Pin MIL C-5015 2E = Integral Cable 3E = Armor Jacket M12E = 4 Pin M12		010 = 10 ft/3 m 020 = 20 ft/6 m 030 = 30 ft/9 m 050 = 50 ft/15 m 100 = 100 ft/30 m	010 = 10 ft/3 m 020 = 20 ft/6 m 030 = 30 ft/9 m 050 = 50 ft/15 m 100 = 100 ft/30 m	

*Custom Lengths Available Upon Request