LP302 Series

Loop Power Sensor, Acceleration, 4-20 mA Output, Top Exit Connector/Cable

Actual Product Size Shown

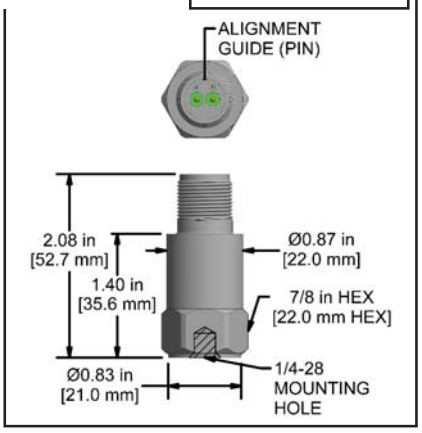
Product Features

Acceleration Output for Higher Frequency Applications

- ***Peak and RMS Outputs Available***
- ***Enables Vibrational Alarms for Process Control***
- ***Outputs to PLC, DCS, SCADA***

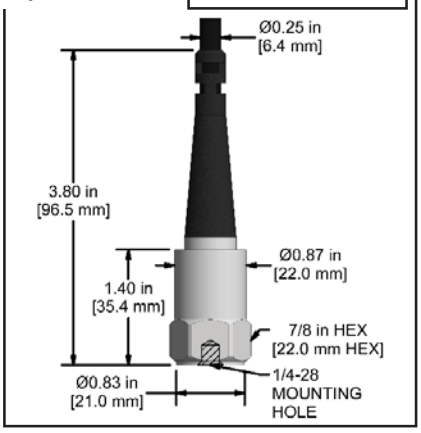
LP302-1E
2 Pin Connector

Connector Pin	Polarity
A	(+) Loop Power mA Output
B	(-) Common



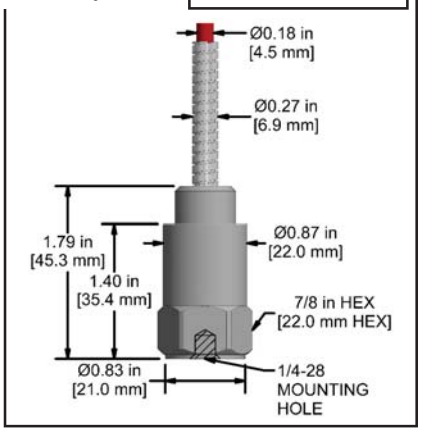
LP302-2E
Integral Cable

Conductor	Polarity
Red	(+) Loop Power mA Output
Black	(-) Common
Shield	Cable Drain Wire



LP302-3E
Armored Integral Cable

Conductor	Polarity
Red	(+) Loop Power mA Output
Black	(-) Common
Shield	Cable Drain Wire



Specifications	Standard	Metric
Output, 4-20 mA Measurement Range	See Selection Guide	
Tolerances		
4 mA	(± 5%)	
20 mA	(± 10%)	
Electrical		
Settling Time (Turn on Time) @ Room Temp (68°F/20°C)	<30 Seconds	
Power Requirement (Loop Powered) Voltage Source	15-30 VDC	
Electrical Case Isolation	>10^8 ohm	
Environmental		
Temperature Range	-40 to 212°F	-40 to 100°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (LP302-2D/3D)	200 ft.	60 m

Specifications	Standard	Metric
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight (without cable)	3.0 oz	86 grams
Case Material	316L Stainless Steel	
Mounting Hole	1/4-28	
Connector (LP302-1E) Integral Cable (LP302-2E) Armored Cable (LP302-3E)	2 Pin MIL-C-5015 Polyurethane Jacketed Cable Armor Jacketed Cable	
Mechanical		
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Supplied Accessories		
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	Current Output @ 100 Hz	

Ordering Information

☐/LP302 - ☐ ☐ ☐ - ☐☐

All Products Are Built To Order

Stud Type	Measurement Range	Range Type	Frequency Range +/- 3dB	Style	Cable/Armor Lengths
M = M6x1 (blank for 1/4-28)	0 = 0-1 g 2 = 0-2 g 5 = 0-5 g 10 = 0-10 g 20 = 0-20 g	R = RMS P = Peak	1 = 600-60,000 CPM (10-1000 Hz) 2 = 180-150,000 CPM (3-2500 Hz) 3 = 180-60,000 CPM (3-1000 Hz) 4 = 180-300,000 CPM (3-5000 Hz) 5 = 180-600,000 CPM (3-10000 Hz)	1E = 2 Pin MIL C-5015	Component Cables Ordered Separately
				2E = Integral Cable	/ ☐☐☐ - Z (Cable Length (in Feet))
				3E = Armor Jacket	/ ☐☐☐ / ☐☐☐ - Z (Maximum Armor Length 100 ft. (30 m); Cable Length (in Feet))