

# LP832 Series

Low Capacitance, Class I, Division 2/Zone 2 Loop Power Sensor, For Use In "Non-Arcing, Non-Sparking" Environments, Top Exit Connector, Velocity, 4-20 mA Output



Actual Product Size Shown



Must Use "Class I, Division 2" CB190 Cable and D2Q Connector or CB922 Series Cable Adapter or Integral Cable

## Product Features

**Continuous Monitoring in Hazardous Locations**

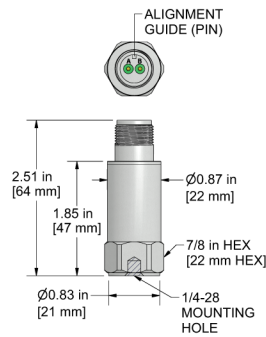
**Velocity 4-20 Output for Applications in Hazardous Locations**

- Requires CB190 with D2Q or CB922 Series Connector (for non-integral cable versions)
- Non-Arcing, Non-Sparking Sensor for Class I, Division 2
- Enables Vibration Alarms for Process Control

### LP832-1B

2 Pin Connector

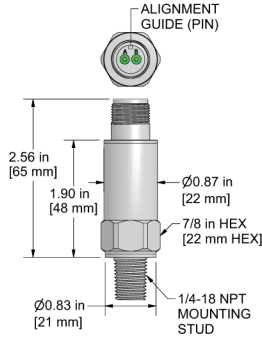
Connector Pin	Polarity
A	(+) Loop Power mA Output
B	(-) Common



### P25/LP832-1B

2 Pin Connector

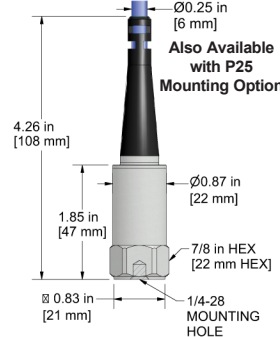
Connector Pin	Polarity
A	(+) Loop Power mA Output
B	(-) Common



### LP832-2C

Integral Cable

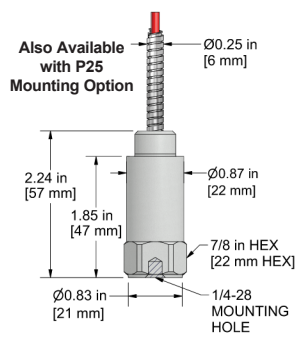
Conductor	Polarity
Red	(+) Loop Power mA Output
Black	(-) Common
Shield	Cable Drain Wire



### LP832-3C

Armored Integral Cable

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



Specifications	Standard	Metric
Output, 4-20 mA	See Selection Guide	
Measurement Range		
<b>Tolerances</b>		
4 mA	± 5%	
20 mA	± 10%	
<b>Electrical</b>		
Settling Time (Turn on Time) @ Room Temp (68° F/20° C)	<60 Seconds	
Power Requirement (Loop Powered) Voltage Source	12-28 VDC	
Electrical Case Isolation	>10 <sup>8</sup> ohm	
<b>Environmental</b>		
Temperature Range	-40 to 176°F	-40 to 80°C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	

Specifications	Standard	Metric
<b>Physical</b>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight (without cable)	3.7 oz	105 grams
Case Material	316L Stainless Steel	
Mounting Hole	1/4-28 1/4 NPT (P25/LP832-1B)	
Connector (LP832-1B)	2 Pin MIL-C-5015	
Integral Cable (LP832-2C)	Blue TPE Cable	
<b>Mechanical</b>		
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
<b>Supplied Accessories</b>		
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	Current Output @ 100 Hz	

## Ordering Information

	/LP832 -			
Stud Type	Measurement Range	Range Type	Frequency Range +/- 3dB	Style
M = M6x1	0 = 0-0.5 IPS (0-12,7 mm/sec)	R = RMS	1 = 600-60,000 CPM (10-1000 Hz)	1B = 2 Pin MIL (C-5015)
P25 = 1/4 inch NPT	1 = 0-1 IPS (0-25,4 mm/sec)	P = Peak	2 = 180-150,000 CPM (3-2500 Hz)	2C = Integral Cable
Blank = 1/4-28	2 = 0-2 IPS (0-50,8 mm/sec)			3C = Armored Integral Cable
	3 = 0-10 mm/sec (0-0,4 IPS)			
	4 = 0-20 mm/sec (0-0,8 IPS)			

**Read Before Purchasing**  
Important information on Regulatory Approvals and Requirements on Page 258



**Lifetime Warranty on Materials & Workmanship**