

LP832 Series

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

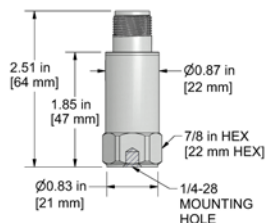
- Requires **CB190** with **D2Q** or **CB922** Series Connector (for non-integral cable versions)
- **Non-Arcing, Non-Sparking** Sensor for Class I, Division 2
- Enables **Vibration Alarms** for Process Control

LP832-1B

2 Pin Connector

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

ALIGNMENT GUIDE (PIN)



P25/LP832-1B

2 Pin Connector

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

ALIGNMENT GUIDE (PIN)



LP832-2C

Integral Cable

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

Also Available with P25 Mounting Option

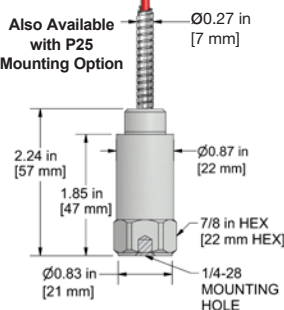


LP832-3C

Armored Integral Cable

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

Also Available with P25 Mounting Option



Specifications	Standard	Metric
Output, 4-20 mA	See Selection Guide	
Measurement Range		
Tolerances		
4 mA	± 5%	
20 mA	± 10%	
Electrical		
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 ⁸ ohm	
Environmental		
Temperature Range	-40 to 176°F	-40 to 80°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	

Specifications	Standard	Metric
Physical		
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	
Armored Cable (LP832-3C)	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

All Products Are Built To Order

/LP832 - - / / -Z

Stud Type	Measurement Range	Range Type	Frequency Range +/- 3dB	Style	Armor Length (Integral)	Cable Length (Integral)
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)	010 = 10 ft. (3 m)	010 = 10 ft. (3 m)
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	020 = 20 ft. (6 m)	020 = 20 ft. (6 m)
Blank = 1/4-28	2 = 0-2 IPS (0-50.8 mm/sec)			3C = Armored Integral Cable	030 = 30 ft. (9 m)	030 = 30 ft. (9 m)
	3 = 0-10 mm/sec (0-0.4 IPS)				050 = 50 ft. (15 m)	050 = 50 ft. (15 m)
	4 = 0-20 mm/sec (0-0.8 IPS)				100 = 100 ft. (30 m)	100 = 100 ft. (30 m)
					(Custom lengths available upon request)	(Custom lengths available upon request)

Read Before Purchasing: Important information on **Regulatory Approvals** and **Requirements** on Page 351

Lifetime Warranty on Materials & Workmanship

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