

LP822 SERIES

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

4-20 mA

LOOP POWER SENSORS, CLASS I, DIVISION 2 / ZONE 2

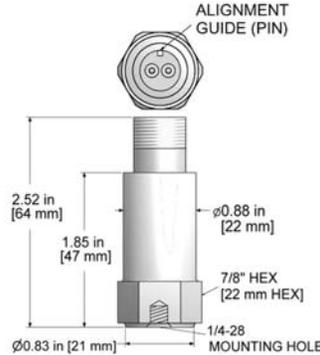
LP822 SERIES



LP822-XXX-1B

2 Pin Connector

**SENSOR REQUIRES
CLASS I, DIVISION 2
"CB190" CABLE &
"D2Q" CONNECTOR**



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

LP822 Series Selection Guide



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

Example Part #:

LP822-1P1-1B
(Supplied with 1/4-28 Stud)

Example Metric Part #:

M/LP822-1P1-1B
(Supplied with M6x1 Adapter Stud)

<u>Performance Specifications</u>	<u>English</u>	<u>Metric</u>	<u>Physical</u>	<u>English</u>	<u>Metric</u>
Output, 4-20 mA			Sensing Element	PZT Ceramic	PZT Ceramic
Measurement Range	See Selection Guide	See Selection Guide	Sensing Structure	Shear Mode	Shear Mode
<u>Electrical</u>			Weight (without cable)	3.7 oz.	105 grams
Settling Time (Turn on Time) @ Room Temp (68°F/20°C)	<60 Seconds	<60 Seconds	Case Material	316L Stainless Steel	316L Stainless Steel
Power Requirement (Loop Powered) Voltage Source	12-28 VDC	12-28 VDC	Mounting Hole	1/4-28	1/4-28
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Connector (LP822-XXX-1B)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
<u>Environmental</u>			<u>Mechanical</u>		
Temperature Range	-40 to 175° F	-40 to 80° C	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Electromagnetic Sensitivity	CE	CE	<u>Supplied Accessories</u>		
Sealing	Welded, Hermetic	Welded, Hermetic	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	Current Output @ 100 Hz	Current Output @ 100 Hz

Regulatory Approvals

US & Canada: Class I, Division 2, Groups A,B,C,D; Class II, Division 2, Groups F, G, Class III; T4; Ex nA IIC, Zone 2; AEx nA IIC, Zone 2; T4

ATEX: II 3 G, Zone 2, Ex nA II T4

Requirements

- Energy limiting barrier not required with Class I, Division 2 / Zone 2 sensors.
- Must be used in combination with Class I, Division 2 / Zone 2 approved cable (such as CB190) and connector (such as D2Q). Please refer to "Class I, Division 2 / Zone 2 Series Control Drawing & Accessories" data sheet; in accordance with CEC or the NEC.
- Case of sensor must be grounded. Please refer to "Class I, Division 2 / Zone 2 Series Control Drawing & Accessories" data sheet.
- Suitability of final installation is to be determined by the authority having local jurisdiction.

LIFETIME WARRANTY ON MATERIALS & WORKMANSHIP

PLEASE SEE WEBSITE FOR DETAILS



PROTECTION & RELIABILITY
OPTIMIZATION INSTRUMENTS
A CTC COMPANY