

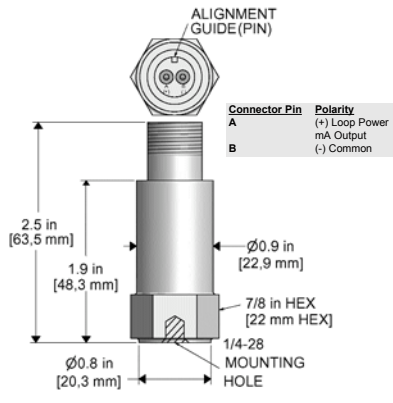
LP802 Series

Intrinsically Safe, Loop Power Sensor, Velocity, 4-20 mA Output, Top Exit Connector / Cable



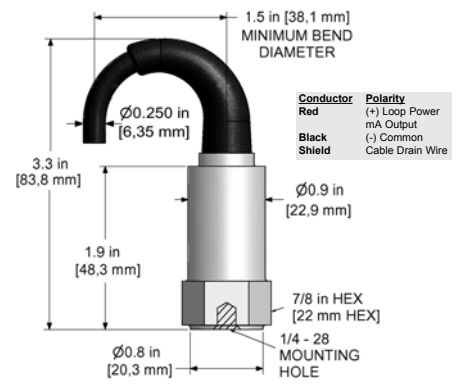
LP802-1A-XXX

2 Pin Connector



LP802-2A-XXX

Integral Cable



How To Order - Select the desired parameters using the selection guide below.

Example Part #: LP802-1A-1P1 (Supplied with 1/4-28 Stud)

Example Metric Part #: M/LP802-1A-1P1 (Supplied with M6x1 Adapter Stud)

Example Integral Cable Part #: LP802-2A-1P1/010-Z (Supplied with 1/4-28 Stud)

Selection Guide

Part #: / LP802 - A - / - Z

Stud Type ← **Style** ← **Measurement Range** ← **Range Type** ← **Frequency Range +/-3dB** ← **Cable Length** ←

M = Metric **1** = 2 Pin MIL (C-5015) **0** = 0-0.5 IPS (0-12.7 mm/sec) **R** = RMS **1** = 600-60,000 CPM (10-1000 Hz) **010** = 10 ft. (3 m)

(Blank for 1/4-28) **2** = Integral Cable, CB103 **1** = 0-1 IPS (0-25.4 mm/sec) **P** = Peak **2** = 180-150,000CPM (3-2500 Hz) **020** = 20 ft. (6 m)

2 = 0-2 IPS (0-50.8 mm/sec) **030** = 30 ft. (9 m)

3 = 0-10 mm/sec (0-0.4 IPS) **050** = 050 ft. (15 m)

4 = 0-20 mm/sec (0-0.8 IPS) **100** = 100 ft. (30 m)

** Custom Lengths Available Upon Request*

For Integral Cable Sensors Add this Section / Select Length

Performance Specifications	English	Metric	Physical	English	Metric
Output, 4-20 mA			Sensing Element	PZT Ceramic	PZT Ceramic
Measurement Range	See Selection Guide	See Selection Guide	Sensing Structure	Shear Mode	Shear Mode
Electrical			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	18-28 VDC	18-28 VDC	Mounting Hole	1/4-28	1/4-28
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Connector (LP802-1A-XXX)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Environmental			Integral Cable (LP802-2A-XXX)	CB103	CB103
Temperature Range	-40 to 185° F	-40 to 85° C	Mechanical		
Electromagnetic Sensitivity	CE	CE	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Sealing	Welded, Hermetic	Welded, Hermetic	Supplied Accessories		
Submersible Depth (LP802-2A-XXX)	200 ft.	61 m	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	Current Output @ 100 Hz	Current Output @ 100 Hz

Regulatory Approvals

US & Canadian Standards: Division 1, Classes I, II, III, Groups A-F
ATEX: Zone 0

***Proper IS Barrier selection required, please refer to the Overview on Intrinsic Safety**

For optional accessories, please see the *Sensor Accessory Selection Chart*.

