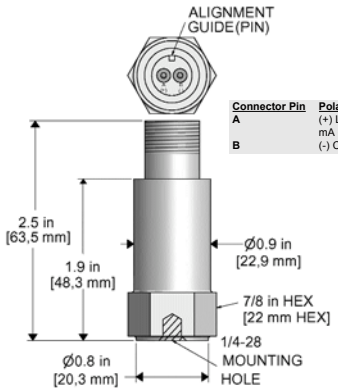
LP902 Series

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

LP902-1A-XXX

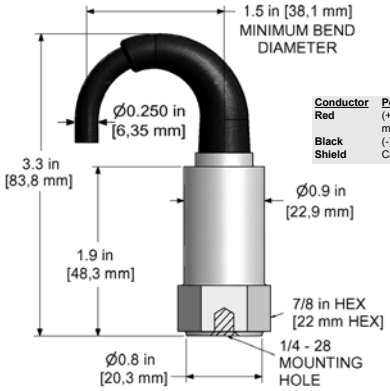
2 Pin Connector



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

LP902-2A-XXX

Integral Cable



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

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

Example Part #: ***LP902-1A-1P1*** *(Supplied with 1/4-28 Stud)*

Example Metric Part #: ***M/LP902-1A-1P1*** *(Supplied with M6x1 Adapter Stud)*

Example Integral Cable Part #: ***LP902-2A-1P1/010-Z*** *(Supplied with 1/4-28 Stud)*

Selection Guide

Part #: [ ] / **LP902 –** [ ] **A** **-** [ ] [ ] / [ ][ ][ ] **– Z**

Stud Type	Style	Measurement Range	Range Type	Frequency Range +/-3dB	Cable Length
M = Metric	**1** = 2 Pin MIL (C-5015)	**0** = 0-1 g	**R** = RMS	**1** = 600-60,000 CPM (10-1000 Hz)	**010** = 10 ft. (3 m)
(Blank for 1/4-28)	**2** = Integral Cable, CB103	**2** = 0-2 g	**P** = Peak	**2** = 180-150,000CPM (3-2500 Hz)	**020** = 20 ft. (6 m)
		5 = 0-5 g			**030** = 30 ft. (9 m)
		10 = 0-10 g			**050** = 050 ft. (15 m)
		20 = 0-20 g			**100** = 100 ft. (30 m)
					**** Custom Lengths Available Upon Request***

Performance Specifications	English	Metric
Output, 4-20 mA		
Measurement Range	See Selection Guide	See Selection Guide
Electrical		
Settling Time (Turn on Time) @ Room Temp (68°F/20°C)	<60 Seconds	<60 Seconds
Power Requirement (Loop Powered)		
Voltage Source	18-28 VDC	18-28 VDC
Electrical Case Isolation	$>10^8$ ohm	$>10^8$ ohm
Environmental		
Temperature Range	-40 to 185° F	-40 to 85° C
Electromagnetic Sensitivity	CE	CE
Sealing	Welded, Hermetic	Welded, Hermetic
Submersible Depth (LP902-2A-XXX)	200 ft.	61 m

Physical	English	Metric
Sensing Element	PZT Ceramic	PZT Ceramic
Sensing Structure	Shear Mode	Shear Mode
Weight (without cable)	3.7 oz.	105 grams
Case Material	316L Stainless Steel	316L Stainless Steel
Mounting Hole	1/4-28	1/4-28
Connector (LP902-1A-XXX)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Integral Cable (LP902-2A-XXX)	CB103	CB103
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	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".