

# LP302 Series

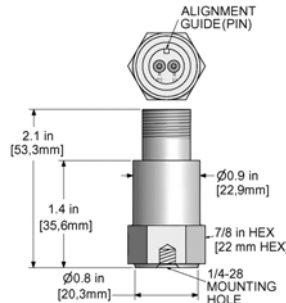
## Loop Power Sensor, Acceleration, 4-20 mA Output, Top Exit Connector / Cable



### LP302-XXX-1A

#### 2 Pin Connector

Connector Pin	Polarity
A	(+) Loop Power
B	(-) Loop Power



### LP302-XXX-2A

#### Integral Cable

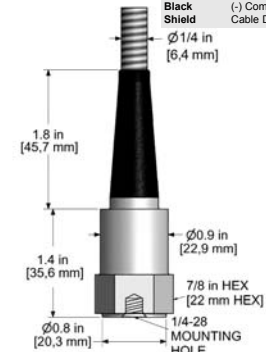
Conductor	Polarity
Red	(+) Loop Power
Black	(-) Loop Power
Shield	Cable Drain Wire



### LP302-XXX-3A

#### Armored Integral Cable

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



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

**Example Part #:** LP302-1R2-1A (Supplied with 1/4-28 Stud)

**Example Metric Part #:** M/LP302-1R2-1A (Supplied with M6x1 Adapter Stud)

**Example Integral Cable Part #:** LP302-1R2-2A/010-Z (Supplied with 1/4-28 Stud)

### Selection Guide

**Part #:**  / LP302 -  -  -  A /  -  - Z

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

<b>M</b> = Metric (Blank for 1/4-28)	<b>1</b> = 0-1 g <b>2</b> = 0-2 g <b>5</b> = 0-5 g <b>10</b> = 0-10 g <b>20</b> = 0-20 g	<b>R</b> = RMS <b>P</b> = Peak	<b>1</b> = 600-60,000 CPM (10-1000 Hz) <b>2</b> = 180-150,000CPM (3-2500 Hz)	<b>1</b> = 2 Pin MIL (C-5015) <b>2</b> = Integral Cable, CB103 <b>3</b> = Integral Cable, CB106 armor jacket	<b>010</b> = 10 ft. (3 m) <b>020</b> = 20 ft. (6 m) <b>030</b> = 30 ft. (9 m) <b>050</b> = 050 ft. (15 m) <b>100</b> = 100 ft. (30 m) <i>* Custom Lengths Available Upon Request</i>
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Performance Specifications	English	Metric	Physical	English	Metric
<b>Output, 4-20 mA</b>			<b>Sensing Element</b>	PZT Ceramic	PZT Ceramic
<b>Measurement Range</b>	See Selection Guide	See Selection Guide	<b>Sensing Structure</b>	Shear Mode	Shear Mode
<b>Electrical</b>			<b>Weight (without cable)</b>	2.9 oz.	82 grams
<b>Settling Time (Turn on Time) @ Room Temp (68°F/20°C)</b>	<60 Seconds	<60 Seconds	<b>Case Material</b>	316L Stainless Steel	316L Stainless Steel
<b>Power Requirement (Loop Powered) Voltage Source</b>	18-30 VDC	18-30 VDC	<b>Mounting Hole</b>	1/4-28	1/4-28
<b>Electrical Case Isolation</b>	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm	<b>Connector (LP302-XXX-1A)</b>	2 Pin MIL-C-5015	2 Pin MIL-C-5015
<b>Environmental</b>			<b>Integral Cable (LP302-XXX-2A)</b>	CB103	CB103
<b>Temperature Range</b>	-40 to 185° F	-40 to 85° C	<b>Armored Cable (LP302-XXX-3A)</b>	CB206, Armor Jacket	CB206, Armor Jacket
<b>Electromagnetic Sensitivity</b>	CE	CE	<b>Mechanical</b>		
<b>Sealing</b>	Welded, Hermetic	Welded, Hermetic	<b>Mounting Torque</b>	2 to 5 ft. lbs.	2,7 to 6,8 Nm
<b>Submersible Depth (LP302-XXX-2A)</b>	500 ft.	152 m	<b>Supplied Accessories</b>		
			<b>Mounting Hardware</b>	1/4-28 Stud	M6x1 Adapter Stud
			<b>Calibration Certificate</b>	Current Output @ 100 Hz	Current Output @ 100 Hz

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



VIBRATION ANALYSIS HARDWARE