

# LP502 Series

Premium Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Velocity, Top Exit 2 Pin Connector



## Product Features

New 2nd-Order Filters Deliver Sharper Response and Greater Stopband Attenuation for Cleaner Measurements

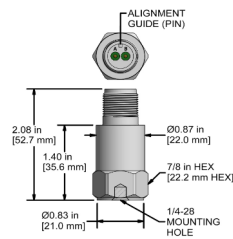
Enhanced Temperature Range of -40 to 257 °F (-40 to 125 °C)

- ▶ Capable of a 2 Hz Low Frequency Response
- ▶ Secondary ISO Band Now Available: 2 Hz - 1 kHz Filter Range

### LP502-XXX-1A

2 Pin Connector

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

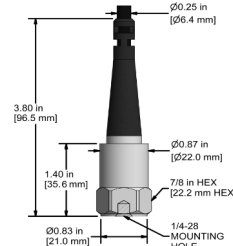


Built To Order

### LP502-XXX-2A

CB103 Integral Cable

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

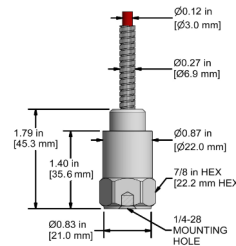


Built To Order

### LP502-XXX-3A

CB206 Armored Integral Cable

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



Built To Order

| Specifications              | Standard             | Metric         | Specifications             | Standard                 | Metric                       |
|-----------------------------|----------------------|----------------|----------------------------|--------------------------|------------------------------|
| Part Number                 | LP502                | M/ or M8/LP502 | Physical                   |                          |                              |
| Tolerance: 4 mA             | (± 10%)              |                | Sensing Element            | PZT Ceramic              |                              |
| Tolerance: 20 mA            | (± 10%)              |                | Sensing Structure          | Shear Mode               |                              |
| Electrical                  |                      |                | Weight                     | 2.9 oz                   | 82 grams                     |
| Settling Time               | <30 Seconds          |                | Case Material              | 316L Stainless Steel     |                              |
| Voltage Source              | 15-30 VDC            |                | Mounting Thread            | 1/4-28 Blind Tapped Hole |                              |
| Case Isolation              | >10 <sup>8</sup> ohm |                | Connector (Non-Integral)   | 2 Pin MIL-C-5015         |                              |
| Environmental               |                      |                | Mounting Torque            | 2 to 5 ft. lbs.          | 2.7 to 6.8 Nm                |
| Operating Temperature Range | -40 to 257 °F        | -40 to 125 °C  | Mounting Hardware Supplied | 1/4-28 Stud              | M6x1 or M8x1.25 Adapter Stud |
| Electromagnetic Sensitivity | CE                   |                | Calibration Certificate    | Current Output @ 100 Hz  |                              |
| Sealing                     | Welded, Hermetic     |                |                            |                          |                              |
| Submersible Depth           | 200 ft.              | 60 m           |                            |                          |                              |

## Ordering Information

| Integral Options                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                           |                                    |                                                                                                                                                                                                       |                                                                                                       |                                                                                                                                  |
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| <b>Stud Type</b><br>Blank = 1/4-28<br>M = M6x1<br>M8 = M8x1.25                                                                                                                                                                                                                                                             | <b>Measurement Range</b><br>0 = 0-0.4 IPS (0-10 mm/sec)<br>1 = 0-0.5 IPS (0-12.7 mm/sec)<br>2 = 0-0.8 IPS (0-20 mm/sec)<br>3 = 0-1.0 IPS (0-25.4 mm/sec)<br>4 = 0-2.0 IPS (0-50.8 mm/sec)<br>6 = 0-5.0 IPS (0-127 mm/sec) | <b>Type</b><br>P = Peak<br>R = RMS | <b>Frequency Range ±3dB</b><br>1 = 600-60000 CPM (10-1000 Hz)<br>2 = 120-150000 CPM (2-2500 Hz)<br>3 = 120-60000 CPM (2-1000 Hz)<br>4 = 120-300000 CPM (2-5000 Hz)<br>5 = 120-600000 CPM (2-10000 Hz) | <b>Style</b><br>1A = 2 Pin MIL C-5015<br>2A = Integral Cable<br>3A = Armor Jacket<br>M12A = 4 Pin M12 | <b>Armor Length (Integral)</b><br>010 = 10 ft/3 m<br>020 = 20 ft/6 m<br>030 = 30 ft/9 m<br>050 = 50 ft/15 m<br>100 = 100 ft/30 m |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |                                    |                                                                                                                                                                                                       |                                                                                                       | <b>Cable Length (Integral)</b><br>010 = 10 ft/3 m<br>020 = 20 ft/6 m<br>030 = 30 ft/9 m<br>050 = 50 ft/15 m<br>100 = 100 ft/30 m |
| *Custom Lengths Available Upon Request                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                                    |                                                                                                                                                                                                       |                                                                                                       |                                                                                                                                  |