

# LP502-M12A Series



## Premium Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Velocity, Top Exit 4 Pin M12 Connector

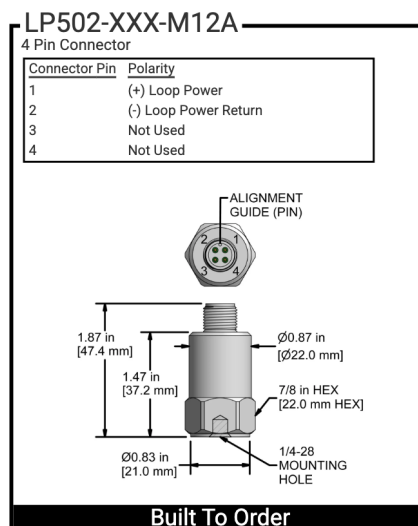


## Product Features

## 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



| Specifications              |  |  | Standard                 |  |  | Metric                       |  |  |
|-----------------------------|--|--|--------------------------|--|--|------------------------------|--|--|
| Part Number                 |  |  | LP502-M12A               |  |  | M/ or M8/LP502-M12E          |  |  |
| Tolerance: 4 mA             |  |  | (± 10%)                  |  |  |                              |  |  |
| Tolerance: 20 mA            |  |  | (± 10%)                  |  |  |                              |  |  |
| <b>Electrical</b>           |  |  |                          |  |  |                              |  |  |
| Settling Time               |  |  | <30 Seconds              |  |  |                              |  |  |
| Voltage Source              |  |  | 15-30 VDC                |  |  |                              |  |  |
| Case Isolation              |  |  | >10 <sup>8</sup> ohm     |  |  |                              |  |  |
| <b>Environmental</b>        |  |  |                          |  |  |                              |  |  |
| Operating Temperature Range |  |  | -40 to 257 °F            |  |  | -40 to 125 °C                |  |  |
| Electromagnetic Sensitivity |  |  | CE                       |  |  |                              |  |  |
| Sealing                     |  |  | Welded, Hermetic         |  |  |                              |  |  |
| <b>Physical</b>             |  |  |                          |  |  |                              |  |  |
| Sensing Element             |  |  | PZT Ceramic              |  |  |                              |  |  |
| Sensing Structure           |  |  | Shear Mode               |  |  |                              |  |  |
| Weight                      |  |  | 2.9 oz                   |  |  | 82 grams                     |  |  |
| Case Material               |  |  | 316L Stainless Steel     |  |  |                              |  |  |
| Mounting Thread             |  |  | 1/4-28 Blind Tapped Hole |  |  |                              |  |  |
| Connector (Non-Integral)    |  |  | 4 Pin M12                |  |  |                              |  |  |
| Mounting Torque             |  |  | 2 to 5 ft. lbs.          |  |  | 2,7 to 6,8 Nm                |  |  |
| Mounting Hardware Supplied  |  |  | 1/4-28 Stud              |  |  | M6x1 or M8x1.25 Adapter Stud |  |  |
| Calibration Certificate     |  |  | Current Output @ 100 Hz  |  |  |                              |  |  |

## Ordering Information

/LP502 -

Stud Type

**Blank** = ¼-28  
**M** = M6x1  
**M8** = M8x1.25

Measurement Range

**0** = 0-0.4 IPS (0-10 mm/sec)  
**1** = 0-0.5 IPS (0-12.7 mm/sec)  
**2** = 0-0.8 IPS (0-20 mm/sec)  
**3** = 0-1.0 IPS (0-25.4 mm/sec)  
**4** = 0-2.0 IPS (0-50.8 mm/sec)  
**6** = 0-5.0 IPS (0-127 mm/sec)

Type

**P** = Peak  
**R** = RMS

Frequency Range ±3dB

**1** = 600-60000 CPM (10-1000 Hz)  
**2** = 120-150000 CPM (2-2500 Hz)  
**3** = 120-60000 CPM (2-1000 Hz)  
**4** = 120-300000 CPM (2-5000 Hz)  
**5** = 120-600000 CPM (2-10000 Hz)

Style

**1A** = 2 Pin MIL C-5015  
**2A** = Integral Cable  
**3A** = Armor Jacket  
**M12A** = 4 Pin M12

Integral Options

Armor Length (Integral)

**010** = 10 ft/3 m  
**020** = 20 ft/6 m  
**030** = 30 ft/9 m  
**050** = 50 ft/15 m  
**100** = 100 ft/30 m

Cable Length (Integral)

**010** = 10 ft/3 m  
**020** = 20 ft/6 m  
**030** = 30 ft/9 m  
**050** = 50 ft/15 m  
**100** = 100 ft/30 m

\*Custom Lengths Available Upon Request