

# LP602-M12A Series

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



## Product Features

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

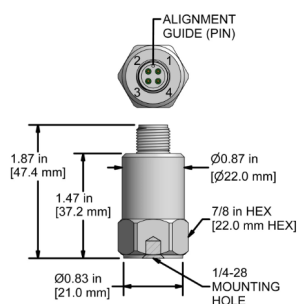
Enhanced Temperature Range of -40 to 257 °F (-40 to 125 °C)

- ▶ Capable of a 2 Hz Low Frequency Response
- ▶ New Measurement Ranges of 0 to 0.25 g & 0 to 0.5 g

## LP602-XXX-M12A

4 Pin Connector

| Connector Pin | Polarity              |
|---------------|-----------------------|
| 1             | (+) Loop Power        |
| 2             | (-) Loop Power Return |
| 3             | Not Used              |
| 4             | Not Used              |



Built To Order

| Specifications              | Standard             | Metric              | Specifications             | Standard                 | Metric                       |
|-----------------------------|----------------------|---------------------|----------------------------|--------------------------|------------------------------|
| Part Number                 | LP602-M12A           | M/ or M8/LP602-M12A | 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     |                     |                            |                          |                              |

## Ordering Information

| /LP602 -                                   |                                                                                                |                     |                                                                                                                                                                        |                                                                                       |  | Integral Options                                                                               |                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Stud Type                                  | Measurement Range                                                                              | Type                | Frequency Range ±3dB                                                                                                                                                   | Style                                                                                 |  | Armor Length (Integral)                                                                        | Cable Length (Integral)                                                                        |
| Blank = 1/4-28<br>M = M6x1<br>M8 = M8x1.25 | 0 = 0-0.25 g<br>1 = 0-0.5 g<br>2 = 0-1 g<br>3 = 0-2 g<br>4 = 0-5 g<br>5 = 0-10 g<br>6 = 0-20 g | P = Peak<br>R = RMS | 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) | 1A = 2 Pin MIL C-5015<br>2A = Integral Cable<br>3A = Armor Jacket<br>M12A = 4 Pin M12 |  | 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 | 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                                                         |                                                                                                |