

# LP302-M12E Series

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



## Product Features

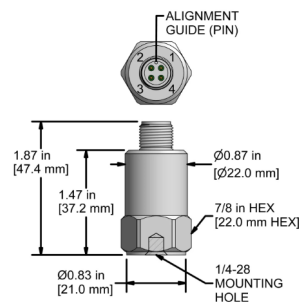
### 4-20 mA Current Proportional to Vibration in Acceleration

- ▶ Peak and RMS Outputs Available
- ▶ Transmits Signals Over Long Distances with No Signal Loss
- ▶ Outputs to PLC, DCS, SCADA

## LP302-XXX-M12E

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                 | LP302-M12E           | M/ or M8/LP302-M12E | 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)   | 4 Pin M12                |                              |
| Environmental               |                      |                     | Mounting Torque            | 2 to 5 ft. lbs.          | 2,7 to 6,8 Nm                |
| Operating Temperature Range | -4 to 212 °F         | -20 to 100 °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

| /LP302 -                                   |                                                                   |                     |                                                                                                                                                                        |                                                                                       |  | 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 = 0-1 g<br>2 = 0-2 g<br>5 = 0-5 g<br>10 = 0-10 g<br>20 = 0-20 g | P = Peak<br>R = RMS | 1 = 600-60000 CPM (10-1000 Hz)<br>2 = 180-150000 CPM (3-2500 Hz)<br>3 = 180-60000 CPM (3-1000 Hz)<br>4 = 180-300000 CPM (3-5000 Hz)<br>5 = 180-600000 CPM (3-10000 Hz) | 1E = 2 Pin MIL C-5015<br>2E = Integral Cable<br>3E = Armor Jacket<br>M12E = 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                                                         |                                                                                                |