

## LP204-M12E Series



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

## VIBRATION ANALYSIS HARDWARE



## Product Features

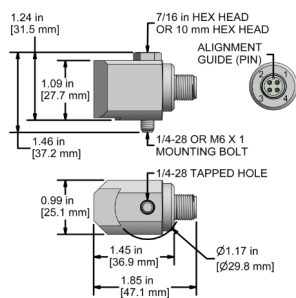
### 4-20 mA Current Proportional to Vibration in Velocity

- ▶ Transmit Signals Over Long Distances with No Signal Loss
- ▶ Outputs to PLC, DCS, SCADA

**-LP204-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            |  |  |
|-----------------------------|--|--|-------------------------|--|--|-------------------|--|--|
| Part Number                 |  |  | LP204-M12E              |  |  | M/LP204-M12E      |  |  |
| Tolerance: 4 mA             |  |  | (± 10%)                 |  |  |                   |  |  |
| Tolerance: 20 mA            |  |  | (± 10%)                 |  |  |                   |  |  |
| Electrical                  |  |  |                         |  |  |                   |  |  |
| Settling Time               |  |  | <30 Seconds             |  |  |                   |  |  |
| Voltage Source              |  |  | 15-30 VDC               |  |  |                   |  |  |
| Case Isolation              |  |  | >10 <sup>8</sup> ohm    |  |  |                   |  |  |
| Environmental               |  |  |                         |  |  |                   |  |  |
| Operating Temperature Range |  |  | -4 to 212°F             |  |  | -20 to 100°C      |  |  |
| Electromagnetic Sensitivity |  |  | CE                      |  |  |                   |  |  |
| Sealing                     |  |  | Welded, Hermetic        |  |  |                   |  |  |
| Specifications              |  |  | Standard                |  |  | Metric            |  |  |
| Physical                    |  |  |                         |  |  |                   |  |  |
| Sensing Element             |  |  | PZT Ceramic             |  |  |                   |  |  |
| Sensing Structure           |  |  | Shear Mode              |  |  |                   |  |  |
| Weight                      |  |  | 4.7 oz                  |  |  | 134 grams         |  |  |
| Case Material               |  |  | 316L Stainless Steel    |  |  |                   |  |  |
| Mounting Thread             |  |  | 1/4-28                  |  |  |                   |  |  |
| 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 Captive Bolt     |  |  | M6x1 Captive Bolt |  |  |
| Calibration Certificate     |  |  | Current Output @ 100 Hz |  |  |                   |  |  |

## Ordering Information

|                                                          |  |                                                                                                                                                                                                                                   |  |                                                                                                                                        |  |
|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------|--|
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| <b>Bolt Type</b>                                         |  | <b>Measurement Range</b>                                                                                                                                                                                                          |  | <b>Type</b>                                                                                                                            |  |
| <b>Blank</b> = ¼-28<br><b>M</b> = M6x1                   |  | <b>0</b> = 0-0.5 IPS (0-12.7 mm/sec)<br><b>1</b> = 0-1 IPS (0-25.4 mm/sec)<br><b>2</b> = 0-2 IPS (0-50.8 mm/sec)<br><b>3</b> = 0-0.4 IPS (0-10 mm/sec)<br><b>4</b> = 0-0.8 IPS (0-20 mm/sec)<br><b>6</b> = 0-5 IPS (0-127 mm/sec) |  | <b>P</b> = Peak<br><b>R</b> = RMS                                                                                                      |  |
|                                                          |  | <b>Frequency Range ±3dB</b>                                                                                                                                                                                                       |  | <b>Style</b>                                                                                                                           |  |
|                                                          |  | <b>1</b> = 600-60000 CPM (10-1000 Hz)<br><b>2</b> = 180-150000 CPM (3-2500 Hz)<br><b>3</b> = 180-600000 CPM (3-1000 Hz)<br><b>4</b> = 180-300000 CPM (3-5000 Hz)<br><b>5</b> = 180-600000 CPM (3-10000 Hz)                        |  | <b>1E</b> = 2 Pin MIL C-5015<br><b>2E</b> = Integral Cable<br><b>3E</b> = Armor Jacket<br><b>M12E</b> = 4 Pin M12                      |  |
|                                                          |  |                                                                                                                                                                                                                                   |  | <b>Integral Options</b>                                                                                                                |  |
|                                                          |  |                                                                                                                                                                                                                                   |  | <b>Armor Length (Integral)</b>                                                                                                         |  |
|                                                          |  |                                                                                                                                                                                                                                   |  | <b>010</b> = 10 ft/3 m<br><b>020</b> = 20 ft/6 m<br><b>030</b> = 30 ft/9 m<br><b>050</b> = 50 ft/15 m<br><b>100</b> = 100 ft/30 m      |  |
|                                                          |  |                                                                                                                                                                                                                                   |  | <b>Cable Length (Integral)</b>                                                                                                         |  |
|                                                          |  |                                                                                                                                                                                                                                   |  | <b>010</b> = 10 ft/3 m<br><b>020</b> = 20 ft/6 m<br><b>030</b> = 30 ft/9 m<br><b>050</b> = 50 ft/15 m<br><b>100</b> = 100 ft/30 m      |  |
| *Custom Lengths Available Upon Request                   |  |                                                                                                                                                                                                                                   |  |                                                                                                                                        |  |