

# LP304 Series

Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Acceleration, Side Exit 2 Pin Connector



VIBRATION ANALYSIS HARDWARE



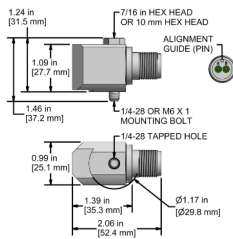
## Product Features

Acceleration Output for Higher Frequency Applications

- ▶ Peak and RMS Outputs Available
- ▶ Vibrational Alarms for Process Control
- ▶ Outputs to PLC, DCS, SCADA

### LP304-XXX-1E 2 Pin Connector

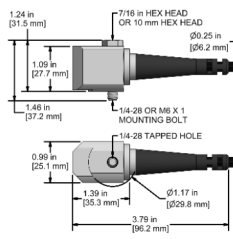
| Connector Pin | Polarity                 |
|---------------|--------------------------|
| A             | (+) Loop Power mA Output |
| B             | (-) Common               |



Built To Order

### LP304-XXX-2E CB105 Integral Cable

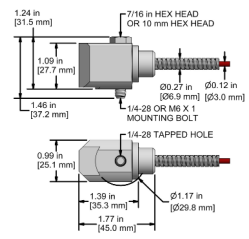
| Conductor | Polarity                 |
|-----------|--------------------------|
| Red       | (+) Loop Power mA Output |
| Black     | (-) Common               |
| Shield    | Cable Drain Wire         |



Built To Order

### LP304-XXX-3E CB206 Armored Integral Cable

| Conductor | Polarity                 |
|-----------|--------------------------|
| Red       | (+) Loop Power mA Output |
| Black     | (-) Common               |
| Shield    | Cable Drain Wire         |



Built To Order

| Specifications              | Standard             | Metric      | Specifications           | Standard                | Metric            |
|-----------------------------|----------------------|-------------|--------------------------|-------------------------|-------------------|
| Part Number                 | LP304                | M/LP304     | <b>Physical</b>          |                         |                   |
| Tolerance: 4 mA             | (± 10%)              |             | Sensing Element          | PZT Ceramic             |                   |
| Tolerance: 20 mA            | (± 10%)              |             | Sensing Structure        | Shear Mode              |                   |
| <b>Electrical</b>           |                      |             | Weight                   | 4.9 oz                  | 140 grams         |
| Settling Time               | <60 Seconds          |             | Case Material            | 316L                    |                   |
| Voltage Source (IEPE)       | 15-30 VDC            |             | Case Material            | Stainless               |                   |
| Case Isolation              | >10 <sup>8</sup> ohm |             | Case Material            | Steel                   |                   |
| <b>Environmental</b>        |                      |             | Mounting                 | 1/4-28                  |                   |
| Temperature Range           | -40 to 185°F         | -40 to 85°C | Connector (Non-Integral) | 2 Pin MIL-C-5015        |                   |
| Electromagnetic Sensitivity | CE                   |             | Mounting Torque          | 2 to 5 ft. lbs.         | 2,7 to 6,8 Nm     |
| Sealing                     | Welded, Hermetic     |             | Mounting Hardware        | 1/4-28 Captive Bolt     | M6x1 Captive Bolt |
| Submersible Depth           | 200 ft.              | 60 m        | Calibration Certificate  | Current Output @ 100 Hz |                   |

## Ordering Information

| Stud Type                  | Measurement Range                                                 | Range Type          | Frequency Range ±3dB                                                                                                                | Style                                                                                 | Armor Length (Integral)                                                                        | Cable Length (Integral)                                                                        |
|----------------------------|-------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Blank = 1/4-28<br>M = M8x1 | 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) | 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 |

Backed by our Unconditional Lifetime Warranty

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Lengths Available Upon Request