

# LP584 Series

Premium Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Velocity, Side Exit 2 Pin Connector, M8x1.25 Captive Bolt



## Product Features

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

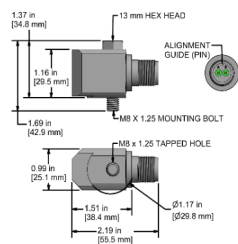
Enhanced Temperature Range of -40 to 257 °F (-40 to 125 °C), and Other Improved Specs Including:

- ▶ Capable of a 2 Hz Low Frequency Response
- ▶ Secondary ISO Band Now Available: 2 Hz - 1 kHz Filter Range

### LP584-XXX-1A

2 Pin Connector

| Connector Pin | Polarity              |
|---------------|-----------------------|
| A             | (+) Loop Power        |
| B             | (-) Loop Power Return |

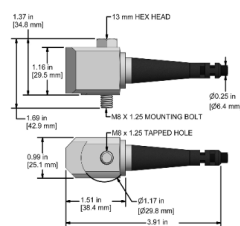


Built To Order

### LP584-XXX-2A

CB103 Integral Cable

| Conductor | Polarity              |
|-----------|-----------------------|
| Red       | (+) Loop Power        |
| Black     | (-) Loop Power Return |
| Shield    | Cable Drain Wire      |

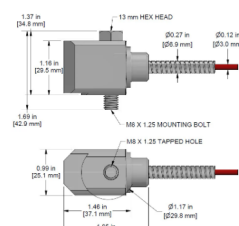


Built To Order

### LP584-XXX-3A

CB206 Armored Integral Cable

| Conductor | Polarity              |
|-----------|-----------------------|
| Red       | (+) Loop Power        |
| Black     | (-) Loop Power Return |
| Shield    | Cable Drain Wire      |



Built To Order

| Specifications              | Standard             | Metric        | Specifications             | Standard                | Metric        |
|-----------------------------|----------------------|---------------|----------------------------|-------------------------|---------------|
| Part Number                 | LP584                |               | Physical                   |                         |               |
| Tolerance: 4 mA             | (± 10%)              |               | Sensing Element            | PZT Ceramic             |               |
| Tolerance: 20 mA            | (± 10%)              |               | Sensing Structure          | Shear Mode              |               |
| Electrical                  |                      |               | Weight                     | 6.0 oz                  | 170 grams     |
| Settling Time               | <30 Seconds          |               | Case Material              | 316L Stainless Steel    |               |
| Voltage Source              | 15-30 VDC            |               | Mounting Thread            | M8x1.25 Captive Bolt    |               |
| Case Isolation              | >10 <sup>9</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 | M8x1.25 Captive Bolt    |               |
| Electromagnetic Sensitivity | CE                   |               | Calibration Certificate    | Current Output @ 100 Hz |               |
| Sealing                     | Welded, Hermetic     |               |                            |                         |               |
| Submersible Depth           | 200 ft.              | 60 m          |                            |                         |               |

## Ordering Information

| /LP584 -                               |                                                                                                                                                                                               |                     |                                                                                                                                                                        |                                                                                       | Integral Options                                                                               |                                                                                                |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Bolt Type                              | Measurement Range                                                                                                                                                                             | Type                | Frequency Range ±3dB                                                                                                                                                   | Style                                                                                 | Armor Length (Integral)                                                                        | Cable Length (Integral)                                                                        |
| Blank = M8x1.25                        | 0 = 0-0.4 IPS (0-10 mm/sec)<br>1 = 0-0.5 IPS (0-12.7 mm/sec)<br>2 = 0-0.8 IPS (0-20 mm/sec)<br>3 = 0-1.0 IPS (0-25.4 mm/sec)<br>4 = 0-2.0 IPS (0-50.8 mm/sec)<br>6 = 0-5.0 IPS (0-127 mm/sec) | 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 |                                                                                                                                                                                               |                     |                                                                                                                                                                        |                                                                                       |                                                                                                |                                                                                                |