

# LP664-M12A Series

Premium Dual Output Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Acceleration with °C Temperature Output, Side Exit 4 Pin M12 Connector



## Product Features

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

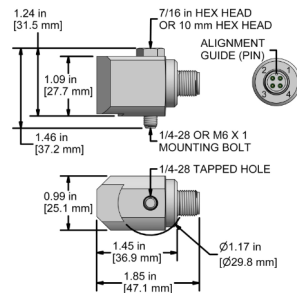
Enhanced Temperature Range of -40 to 257 °F (-40 to 125 °C), and Other Improved Specs Including:

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

## LP664-XXX-M12A

4 Pin M12

| 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                 | LP664-M12A                    | M/LP664-M12A  | Physical                   |                         |                   |
| Temperature Output          | 10 mV/°C                      |               | Sensing Element            | PZT Ceramic             |                   |
|                             | within the range -40 to 85 °C |               | Sensing Structure          | Shear Mode              |                   |
| Tolerance: 4 mA             | (± 10%)                       |               | Weight                     | 4.9 oz                  | 140 grams         |
| Tolerance: 20 mA            | (± 10%)                       |               | Case Material              | 316L Stainless Steel    |                   |
| Tolerance: Temperature      | (± 5 °C)                      |               | Mounting Thread            | 1/4-28                  |                   |
| Electrical                  |                               |               | Connector (Non-Integral)   | 4 Pin M12               |                   |
| Settling Time               | <30 Seconds                   |               | Mounting Torque            | 2 to 5 ft. lbs.         | 2.7 to 6.8 Nm     |
| Voltage Source              | 15-30 VDC                     |               | Mounting Hardware Supplied | 1/4-28 Captive Bolt     | M6x1 Captive Bolt |
| Case Isolation              | >10 <sup>8</sup> ohm          |               | Calibration Certificate    | Current Output @ 100 Hz |                   |
| Environmental               |                               |               |                            |                         |                   |
| Operating Temperature Range | -40 to 257 °F                 | -40 to 125 °C |                            |                         |                   |
| Electromagnetic Sensitivity | CE                            |               |                            |                         |                   |
| Sealing                     | Welded, Hermetic              |               |                            |                         |                   |
| Submersible Depth           | 200 ft.                       | 60 m          |                            |                         |                   |

## Ordering Information

| Ordering Information                                                               |                                                                                                                            |                                    |                                                                                                                                                                                                       |                                                                                                       |  | Integral Options                                                                                                                 |                                                                                                                                  |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| [ ] /LP664 - [ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] / [ ] [ ] [ ] [ ] / [ ] [ ] [ ] [ ] |                                                                                                                            |                                    |                                                                                                                                                                                                       |                                                                                                       |  |                                                                                                                                  |                                                                                                                                  |
| <b>Bolt Type</b><br>Blank = 1/4-28<br>M = M6x1                                     | <b>Measurement Range</b><br>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 | <b>Type</b><br>P = Peak<br>R = RMS | <b>Frequency Range ±3dB</b><br>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) | <b>Style</b><br>1A = 3 Pin MIL C-5015<br>2A = Integral Cable<br>3A = Armor Jacket<br>M12A = 4 Pin M12 |  | <b>Armor Length (Integral)</b><br>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 | <b>Cable Length (Integral)</b><br>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                                                                                           |                                                                                                                                  |