# LP812-XXX-5XC Series

Low Capacitance, Intrinsically Safe Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Velocity, Top Exit with Flying Leads

VIBRATION ANALYSIS HARDWARE

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## Product Features

Continuous Monitoring in Hazardous Locations

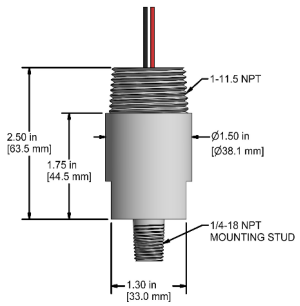
Velocity 4-20 mA Output for Applications in Hazardous Locations

- CSA and ATEX Approvals
- Intrinsic safe applications with use of barrier
- With 1 inch NPT conduit fitting, Integral 1/4 - 18 NPT Mounting Stud

### LP812-XXX-51C

1/4 inch NPT Mount

| Conductor | Polarity |
|---|---|
| Red | (+) Loop Power mA Output |
| Black | (-) Common |

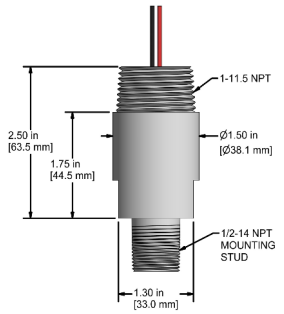



Built To Order

### LP812-XXX-52C

1/2 inch NPT Mount

| Conductor | Polarity |
|---|---|
| Red | (+) Loop Power mA Output |
| Black | (-) Common |




Built To Order

| Specifications | Standard | Metric |
|---|---|---|
| Tolerance: 4 mA | (± 10%) | |
| Tolerance: 20 mA | (± 10%) | |
| **Electrical** | | |
| Settling Time | <60 Seconds | |
| Voltage Source (IEPE) | 12-28 VDC | |
| Case Isolation | >$10^8$ ohm | |
| **Environmental** | | |
| Temperature Range | -40 to 176°F | -40 to 80°C |
| Electromagnetic Sensitivity | CE | |
| Sealing | IP68 | |

| Specifications | Standard | Metric |
|---|---|---|
| **Physical** | | |
| Sensing Element | PZT Ceramic | |
| Sensing Structure | Shear Mode | |
| Weight | 12 oz | 340 grams |
| Case Material | 316L Stainless Steel | |
| Mounting | 1/4 NPT (LP812-51C)<br>1/2 NPT (LP812-52C) | |
| Connector (Non-Integral) | Flying Leads | |
| Mounting Torque | 2 to 5 ft. lbs. | 2,7 to 6,8 Nm |
| Calibration Certificate | Current Output @ 100 Hz | |

## Ordering Information

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**Stud Type**

**Blank** = ¼-28
**M** = M6x1

**Sensor Type**

**802** = 4-20 mA Velocity Loop Power, Intrinsically Safe
**812** = 4-20 mA Velocity Loop Power, Intrinsically Safe, Low Capacitance

**Measurement Range**

**0** = 0-0.5 IPS (0-12.7 mm/sec)
**1** = 0-1 IPS (0-25.4 mm/sec)
**2** = 0-2 IPS (0-50.8 mm/sec)
**3** = 0-10 mm/sec (0-0.4 IPS)
**4** = 0-20 mm/sec (0-0.8 IPS)

**Range Type**

**P** = Peak
**R** = RMS

**Frequency Range**

**1** = 600-60000 CPM (10-1000 Hz)
**2** = 180-150000 CPM (3-2500 Hz)

**Style**

**51C** = Integral ¼ in. NPT Mounting Stud, Flying Leads
**52C** = Integral ½ in. NPT Mounting Stud, Flying Leads

Backed by our Unconditional Lifetime Warranty

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