

# MCB360 Series

Premium, Low Profile Accelerometer with Integrated Rotating Mounting Base, Side Exit Molded Integral Cable, 10 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



## Product Features

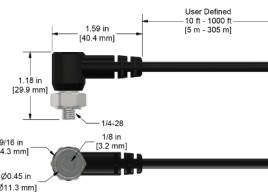
Features an Integrated, Rotating Mounting Base for Easy Sensor Positioning

- ▶ Designed for Low Profile, Permanent Monitoring Applications
- ▶ IP68 Rated

### MCB360-2A

CB110 Integral Cable

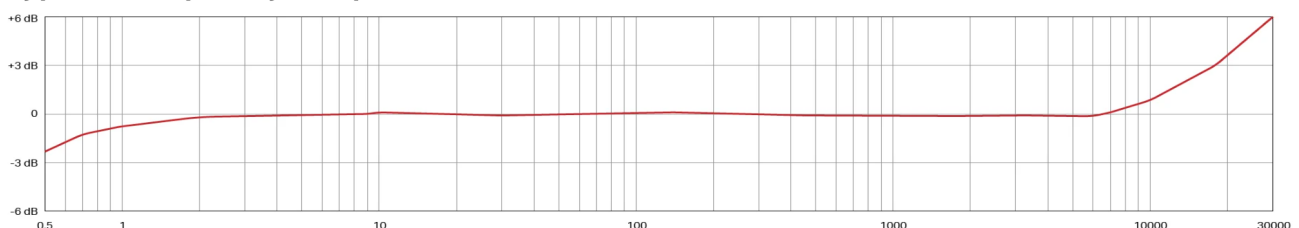
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Stock Product

| Specifications              | Standard                                 | Metric        | Specifications              | Standard                        | Metric            |
|-----------------------------|--|---------------|-----------------------------|---------------------------------|-------------------|
| Part Number                 | MCB360                                   | M/MCB360      | <b>Environmental</b>        |                                 |                   |
| Sensitivity (±5%)           | 10 mV/g                                  |               | Operating Temperature Range | -58 to 250 °F                   | -50 to 121 °C     |
| Frequency Response (±3dB)   | 30-840,000 CPM                           | 0.5 Hz-14 kHz | Maximum Shock Protection    | 10,000 g, peak                  |                   |
| Dynamic Range               | ± 500 g, peak<br>*Vsource ≥ 22V, 12Vbias |               | Electromagnetic Sensitivity | CE Approved                     |                   |
| <b>Electrical</b>           |  |               | Sealing                     | IP68                            |                   |
| Settling Time               | < 2 Seconds                              |               | SIL Rating                  | SIL 2                           |                   |
| Voltage Source (IEPE)       | 18-30 VDC                                |               | <b>Physical</b>             |                                 |                   |
| Constant Current Excitation | 2-10 mA                                  |               | Sensing Element             | PZT Ceramic                     |                   |
| Spectral Noise @ 10 Hz      | 100 µg/√Hz                               |               | Sensing Structure           | Shear Mode                      |                   |
| Spectral Noise @ 100 Hz     | 19 µg/√Hz                                |               | Weight                      | 70 ounces                       | 19.8 grams        |
| Spectral Noise @ 1000 Hz    | 5 µg/√Hz                                 |               | Mounting Base               | 316L Stainless Steel            |                   |
| Output Impedance            | < 100 ohm                                |               | Mounting Thread             | 1/4-28                          |                   |
| Bias Output Voltage         | 10-14 VDC                                |               | Cable Jacket Diameter       | 0.175 in. (4.5 mm)              |                   |
| Case Isolation              | >10 <sup>8</sup> ohm                     |               | Cable Jacket Material       | Polyurethane                    |                   |
|                             |  |               | Cable Conductor             | 20 AWG<br>Twisted Shielded Pair |                   |
|                             |  |               | Mounting Torque             | 1.5 - 2.5 ft. lbs               | 2.0 to 3.4 Nm     |
|                             |  |               | Mounting Hardware Supplied  | 1/4-28 Stud                     | M6x1 Adapter Stud |
|                             |  |               | Calibration Certificate     | CA10                            |                   |

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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