

# MCB360 Series

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



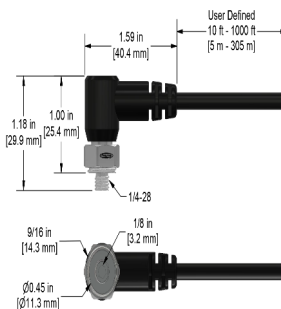
## Product Features

Features an Integrated, Rotating Mounting Base for Easy Sensor Positioning

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

### MCB360-2A CB110 Integral Cable

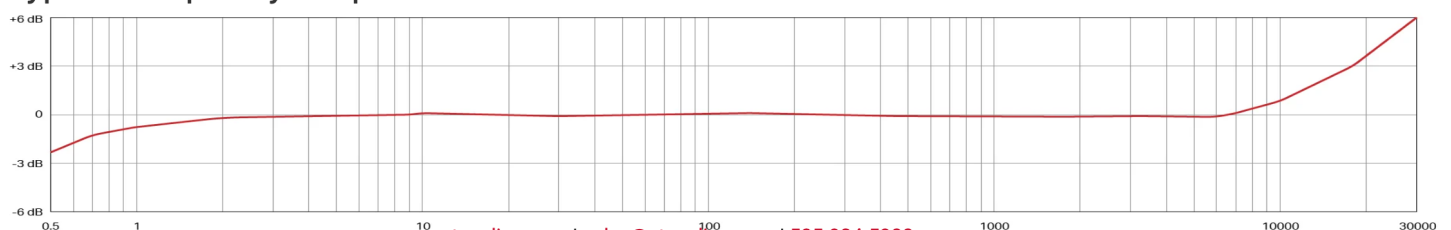
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Stock Product

| Specifications                          | Standard       | Metric                                                                            | Specifications              | Standard          | Metric                          |
|-----------------------------------------|----------------|-----------------------------------------------------------------------------------|-----------------------------|-------------------|---------------------------------|
| Part Number                             | MCB360         | M/MCB360                                                                          | <u>Environmental</u>        |                   |                                 |
| Sensitivity ( $\pm 5\%$ )               |                | 10 mV/g                                                                           | Operating Temperature Range | -58 to 250 °F     | -50 to 121 °C                   |
| Frequency Response ( $\pm 3\text{dB}$ ) | 30-840,000 CPM | 0.5 Hz-14 kHz                                                                     | Maximum Shock Protection    |                   | 10,000 g, peak                  |
| Dynamic Range                           |                | $\pm 500$ g, peak<br>*V <sub>source</sub> $\geq 22\text{V}$ , 12V <sub>bias</sub> | Electromagnetic Sensitivity |                   | CE Approved                     |
| Transverse Sensitivity                  |                | $\leq 5\%$                                                                        | Sealing                     |                   | IP68                            |
| <u>Electrical</u>                       |                |                                                                                   | SIL Rating                  |                   | SIL 2                           |
| Settling Time                           |                | < 2 Seconds                                                                       | <u>Physical</u>             |                   |                                 |
| Voltage Source                          |                | 18-30 VDC                                                                         | Sensing Element             |                   | PZT Ceramic                     |
| Constant Current Excitation             |                | 2-10 mA                                                                           | Sensing Structure           |                   | Shear Mode                      |
| Spectral Noise @ 10 Hz                  |                | 100 $\mu\text{g}/\sqrt{\text{Hz}}$                                                | Weight                      | 0.7 ounces        | 20 grams                        |
| Spectral Noise @ 100 Hz                 |                | 19 $\mu\text{g}/\sqrt{\text{Hz}}$                                                 | Mounting Base               |                   | 316L Stainless Steel            |
| Spectral Noise @ 1000 Hz                |                | 5 $\mu\text{g}/\sqrt{\text{Hz}}$                                                  | Mounting Thread             |                   | 1/4-28                          |
| Output Impedance                        |                | < 100 ohm                                                                         | Cable Jacket Diameter       |                   | 0.175 in. (4.5 mm)              |
| Bias Output Voltage                     |                | 10-14 VDC                                                                         | Cable Jacket Material       |                   | Polyurethane                    |
| Case Isolation                          |                | $> 10^8$ ohm                                                                      | 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



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