

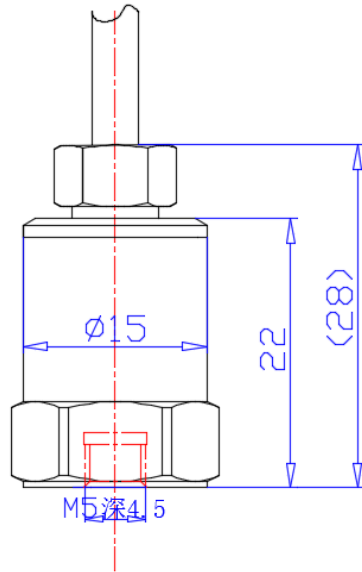
Product Model: **MM173A series**

## Piezoelectric IEPE Accelerometer

Version: **A** Date: **27/5/2022**

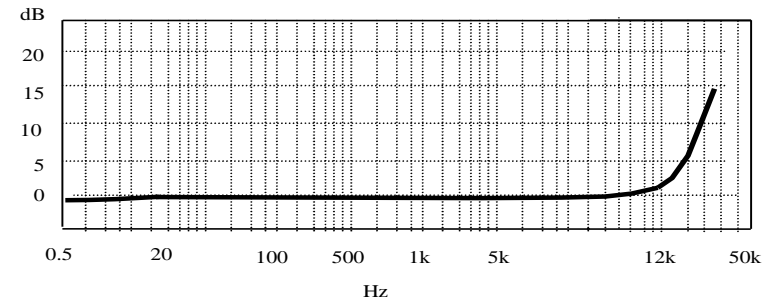
**Sensor Feature:**

- Shear design to reduce the influence of the environment on the signal
- Using wide temperature coefficient ceramic material
- Stable output in high and low temperature

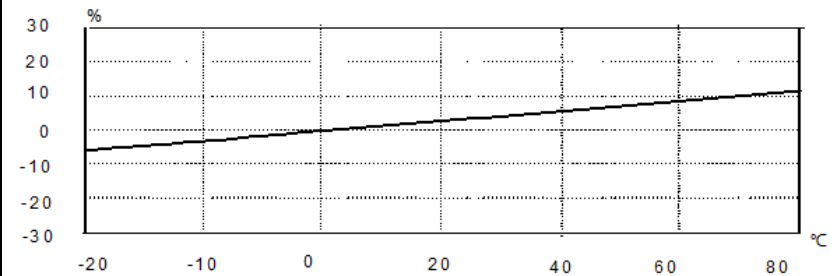


| Performance                  | <b>MM173A-10</b>                  |
|------------------------------|-----------------------------------|
| Sensitivity ( $\pm 10\%$ )   | 10 mV/g                           |
| Measurement Range            | $\pm 500$ g                       |
| Resolution                   | 2 mg rms                          |
| Frequency Range( $\pm 1$ dB) | 0.5-10,000 Hz                     |
| Resonant Frequency           | $\sim 35$ kHz                     |
| Non-linearity                | $\leq 1\%$                        |
| Transverse Sensitivity       | $\leq 5\%$                        |
| Temperature Range            | -20 $\sim$ +80 $^{\circ}\text{C}$ |
| Excitation Voltage           | +18-+28 VDC                       |
| Excitation Current           | 2 - 10 mA                         |
| Output Impedance             | $< 100 \Omega$                    |
| Output Bias Voltage          | 11 $\pm$ 1.5 VDC                  |
| Sensing Element/Geometry     | Ceramic/Shear                     |
| Size mm                      | As left figure                    |
| Weight                       | $\sim 18$ g                       |
| Mounting                     | M5(Female)                        |
| Output Connector             | Water-proof<br>Integral Cable     |
| Housing Material             | 316L Stainless<br>Steel           |
| Enclosure Rating             | IP68                              |

### Frequency Response



### Temperature Response



**Accessories**

- Water-proof coaxial shielded integral cable 1ea 2m
- Certificate of inspection 1ea
- M5 stud 1ea

**Remark**

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