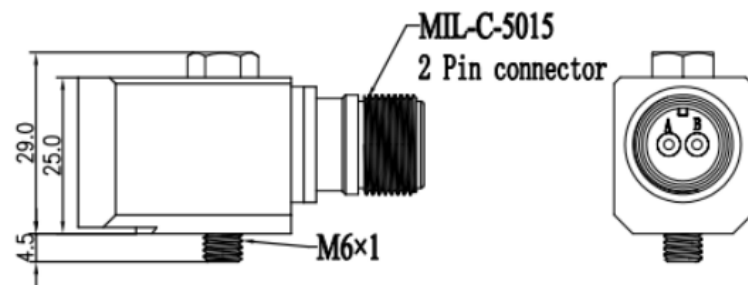


# RH104 (T) Accelerometer

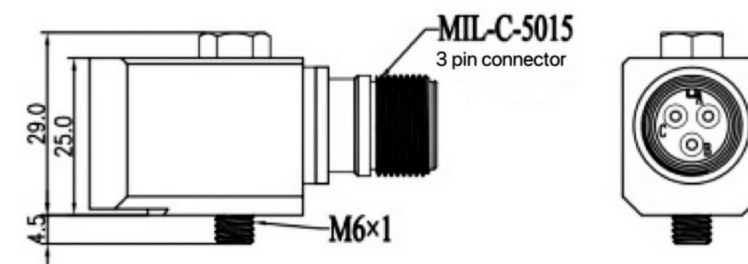
## Product Overview

- Built-in IEPE circuit, isolation output, constant current source power supply
- Laser seal welded
- Using military connector, can be used for on-line monitoring in harsh industrial site
- Side exit and adjustable direction

## Product Picture and Dimension



| Connections   |              |
|---------------|--------------|
| Connector pin | Function     |
| A             | signal/power |
| B             | GND          |



| Connector |                            |
|-----------|----------------------------|
| Pin       | Name                       |
| A         | Vibration signal/<br>Power |
| B         | Temperature                |
| C         | GND                        |

# RH104 (T)

Accelerometer

## Main Parameters

| Parameters                  | Specification                                                                 | Remark                                                                                          |
|-----------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Physical</b>             |                                                                               |                                                                                                 |
| Dimension                   | RH104: 55.2mm×22.0mm×25.0mm<br>RH104T: 55.2mm×22.0mm×25.0mm                   | Length × width × height                                                                         |
| Weight                      | RH104: 126g<br>RH104T: 126g                                                   |                                                                                                 |
| Mounting Thread             | M6×1                                                                          |                                                                                                 |
| Seal Method                 | Laser welding                                                                 |                                                                                                 |
| Casting Material            | 316L Stainless Steel                                                          |                                                                                                 |
| Output                      | RH104: Side output, 2-Pin MIL-C-5015<br>RH104T: Side output, 3-Pin MIL-C-5015 |                                                                                                 |
| Ambient Temperature         | -55°C to +125°C                                                               |                                                                                                 |
| Mounting Torque             | About 2.7N.m to 6.8N.m (M6 thread)                                            |                                                                                                 |
| Protection Grade            | IP 68                                                                         |                                                                                                 |
| Maximal Shock Level         | 5000g                                                                         |                                                                                                 |
| <b>Basic</b>                |                                                                               |                                                                                                 |
| Sensitivity                 | 100mv/g (±10%)                                                                |                                                                                                 |
| Range                       | ±50g peak                                                                     |                                                                                                 |
| Amplitude Linearity         | ≤1%                                                                           |                                                                                                 |
| Frequency Response (±10%)   | 0.7Hz to 7kHz                                                                 |                                                                                                 |
| Frequency Response(±3 dB)   | 0.4Hz to 10kHz                                                                |                                                                                                 |
| Resonance Frequency         | About 25kHz                                                                   |                                                                                                 |
| Transverse Sensitivity      | ≤5%                                                                           |                                                                                                 |
| Temperature Measuring Range | -40°C to 120°C                                                                | The temperature measurement function is an optional function, corresponding to the RH104T model |
| Temperature Sensitivity     | 10mv/°C                                                                       |                                                                                                 |
| Temperature Voltage Output  | 70mv (25°C)                                                                   |                                                                                                 |

# RH104 (T)

Accelerometer

## Main Parameters

| Parameters                              | Specification                                                                                                      | Remark                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Electrical</b>                       |                                                                                                                    |                                                                                 |
| Bias Voltage                            | 10.5VDC to 13.5VDC typical:<br>12VDC                                                                               |                                                                                 |
| Constant Current                        | 2mA to 20mA typical: 4mA                                                                                           |                                                                                 |
| Excitation Voltage                      | 18VDC to 30 VDC typical:<br>24VDC                                                                                  |                                                                                 |
| Settling Time                           | $\leq 2$ S                                                                                                         |                                                                                 |
| Electrical Noise Power Spectral Density | 10Hz 14 $\mu$ g/ $\sqrt{\text{Hz}}$<br>100Hz 5 $\mu$ g/ $\sqrt{\text{Hz}}$<br>1000Hz 3 $\mu$ g/ $\sqrt{\text{Hz}}$ |                                                                                 |
| Output Impedance                        | <100 $\Omega$                                                                                                      |                                                                                 |
| Grounding                               | Housing isolation, internal shielding                                                                              |                                                                                 |
| <b>Others</b>                           |                                                                                                                    |                                                                                 |
| Certification                           | CE, EX                                                                                                             |                                                                                 |
| Identification                          | Ex ia IICT4 Ga<br>EX ia IIIC T <sub>200</sub> 135°C Da                                                             | (Optional model for explosion proof area, corresponding to the EX RH104T model) |