

## Milli-Vib Vibration Sensor

### APPLICATION

VIBMIL is a vibration sensor designed for continuous monitoring of vibration levels in industrial environments. It is current loop powered accelerometer and delivers accurate vibration RMS velocity using a 4-20 mA output. Built with a stainless-steel enclosure, including a 3/4" NPT thread for conduit connection.

### METHOD OF OPERATION

The VIBMIL is equipped with female 1/4"-28 UNF female mounting thread, allowing the use of a screw, stud, or mounting stud to secure the sensor to the desired application.

The sensor is supplied with a 1/4"-28 UNF set screw as standard. Optional converters to M8 and M6 male threads are available.

To achieve maximum sensitivity, mount the sensor vertically along the Y-axis of the machinery.

To ensure accurate readings and proper functioning of the VIBMIL, securely fix it to a level surface during installation.

Implement the 2 wire, loop powered accelerometer into the desired control system and measure the linear output from 4 – 20mA proportional to the sensors measuring range.



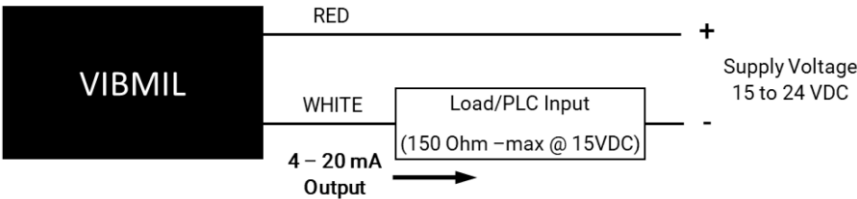
### FEATURES

- Robust, compact, IP66 Stainless Steel enclosure
- Monitors RMS velocity in mm/s
- Measuring range 0-25 mm/s
- 2 wire 4-20mA loop powered sensor
- 3/4" NPT conduit fitting
- 1/4" – 28 Female UNF mounting thread.
- ATEX, IECEx, UKEx Zone 20 Approved
- Class II Div 1 Approved

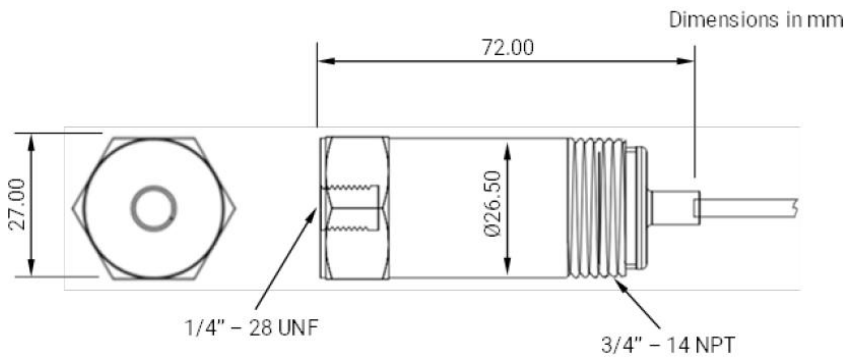
### PART NUMBERS/ACCESSORIES

|               |                                                                                 |
|---------------|---------------------------------------------------------------------------------|
| VIBMIL21V4CAI | - Milli-Vib Vibration Sensor 1/4"-28UNF – No Temp. - NRTL / ATEX / IECEx / UKEx |
| VIBMILM6      | - VIBMIL 1/4"-28 UNF Male to M6 Male thread Adaptor                             |
| VIBMILM8      | - VIBMIL 1/4"-28 UNF Male to M8 Male thread Adaptor                             |

**WIRE DESCRIPTION**



**DIMENSIONS**



**TECHNICAL SPECIFICATIONS**

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Power Supply      | +15 VDC to +24 VDC (+10%)                                                 |
| Power Dissipation | max 0.56 watt                                                             |
| Measuring Range   | • 0 –25 mm/s RMS Velocity (VIBMILx1xVxx)                                  |
| Frequency Range   | 4 –20 mA proportional to Measuring Range                                  |
| Maximum Load      | 600 Ohms at 24 VDC Supply Voltage                                         |
| Power-on Time     | < 10 sec                                                                  |
| Operating Temp    | -40 °C to +50 °C                                                          |
| Dimensions        | Height 72 mm x Width 27 mm                                                |
| Mounting Thread   | 1/4"-28 UNF female thread (supplied with 1/4"-28 UNF set screw)           |
| Mounting Torque   | 8 Nm                                                                      |
| Housing Material  | Stainless Steel                                                           |
| Cable             | 3m (9.8 ft) long, with 2 or 4 cores 24 AWG                                |
| Approvals         | ATEX, IECEx, UKEx Zone 20<br>Class II Div 1 Groups E, F & G (US & Canada) |