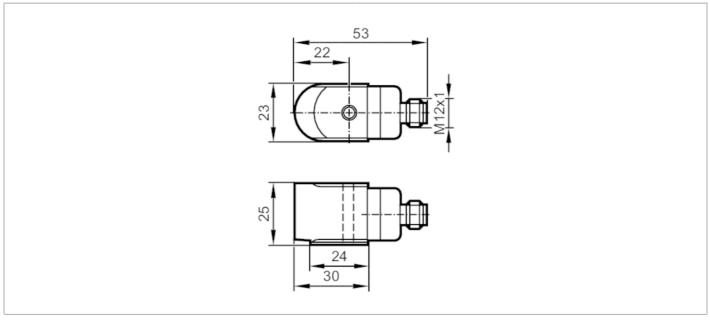
## **VSP003**

#### **Accelerometer**

VIBRATION SENSOR





# C€ CA

| Product characteristics      |             |   |  |  |
|------------------------------|-------------|---|--|--|
| Measuring range of vibration | [g]         | -8080; (-5050 g when connected to a VSE)              |  |  |
| Frequency range              | [Hz]        | 1.516000  |  |  |
| Measuring principle          |             | piezoelectric   |  |  |
| Communication interface      |             | IEPE  |  |  |
| Application                  |             |   |  |  |
| Design                       |             | for connection to external diagnostic electronics VSE |  |  |
| Electrical data              |             |   |  |  |
| Bias voltage DC              | [V]         | 1012  |  |  |
| Current consumption          | [mA]        | 0.58  |  |  |
| Min. insulation resistance   | $[M\Omega]$ | 100; (500 V DC)                                       |  |  |
| Reverse polarity protection  |             | yes   |  |  |
| Measuring/setting range      |             |   |  |  |
| Measuring range of vibration | [g]         | -8080; (-5050 g when connected to a VSE)              |  |  |
| Frequency range              | [Hz]        | 1.516000  |  |  |
| Measuring principle          |             | piezoelectric   |  |  |
| Noise density                | [mg]        | 0.1   |  |  |
| Max. transverse sensitivity  | [%]         | 5   |  |  |
| Minimum measuring time       | [s]         | 1   |  |  |
| Number of measurement axes   |             | 1   |  |  |
| Accuracy / deviations        |             |   |  |  |
| Accuracy                     |             | ± 10 %  |  |  |
| Measuring sensitivity        |             | 100 mV/g  |  |  |
| Interfaces                   |             |   |  |  |
| Communication interface      |             | IEPE  |  |  |

## **VSP003**

#### **Accelerometer**

VIBRATION SENSOR



| Operating conditions |         |                          |           |  |  |  |
|----------------------|---------|--------------------------|-----------|--|--|--|
| Ambient temperature  | [°C]    | -55130                   |           |  |  |  |
| Storage temperature  | [°C]    | -55130                   |           |  |  |  |
| Protection           |         | IP 67                    |           |  |  |  |
| Tests / approvals    |         |                          |           |  |  |  |
| EMC                  |         | EN 61326-1               | : 2013    |  |  |  |
| Shock resistance     |         | EN 61326-1               | : 2013    |  |  |  |
| MTTF                 | [years] | 1142                     |           |  |  |  |
| Mechanical data      |         |                          |           |  |  |  |
| Weight               | [g]     | 135                      |           |  |  |  |
| Type of mounting     |         |                          | M8 x 1,25 |  |  |  |
| Material             |         | housing: stainless steel |           |  |  |  |
| Tightening torque    | [Nm]    | 8                        |           |  |  |  |
| Remarks              |         |                          |           |  |  |  |
| Pack quantity        |         | 1 pcs.                   |           |  |  |  |

### **Electrical connection**

Connector: 1 x M12; coding: A



| 1 | not used |
|---|----------|
| 2 | IEPE +   |
| 3 | not used |
| 4 | IEPE -   |