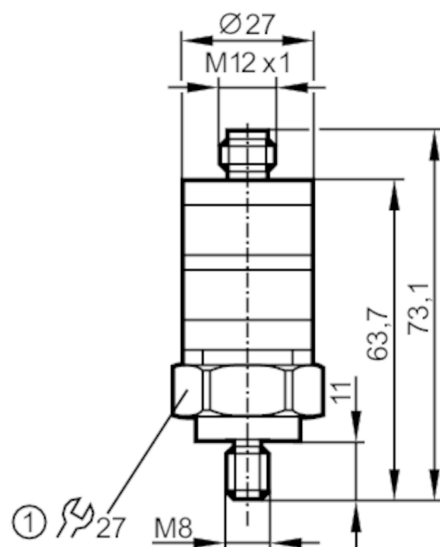


## Vibration monitor with intuitive switch point setting

VIBRATION MONITOR



- 1 Tightening torque 15 Nm  
M8 x 1.25 mm



## Product characteristics

|                                     |               |
|-------------------------------------|---------------|
| Measuring range of vibration [mm/s] | 0...50; (RMS) |
| Frequency range [Hz]                | 10...1000     |

## Application

|             |                                    |
|-------------|------------------------------------|
| Application | vibration monitor to DIN ISO 10816 |
|-------------|------------------------------------|

## Electrical data

|                          |                                      |
|--------------------------|--------------------------------------|
| Operating voltage [V]    | 18...32 DC                           |
| Current consumption [mA] | < 50                                 |
| Protection class         | III                                  |
| Sensor type              | microelectromechanical system (MEMS) |

## Inputs / outputs

|                                    |                                                             |
|------------------------------------|-------------------------------------------------------------|
| Total number of inputs and outputs | 2                                                           |
| Number of inputs and outputs       | Number of digital outputs: 1; Number of analogue outputs: 1 |

## Outputs

|                                                      |                                   |
|------------------------------------------------------|-----------------------------------|
| Output signal                                        | switching signal; analogue signal |
| Electrical design                                    | PNP                               |
| Number of digital outputs                            | 1                                 |
| Output function                                      | normally closed                   |
| Max. voltage drop switching output DC [V]            | 2                                 |
| Permanent current rating of switching output DC [mA] | 500                               |
| Number of analogue outputs                           | 1                                 |
| Analogue current output [mA]                         | 4...20                            |
| Max. load [Ω]                                        | 500                               |



## Vibration monitor with intuitive switch point setting

### VIBRATION MONITOR

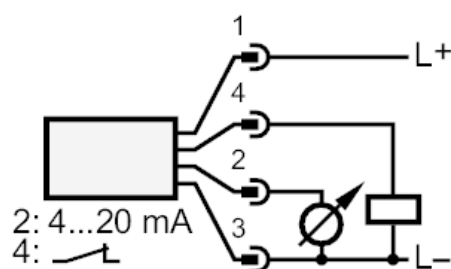
|                                        |                                             |                   |
|----------------------------------------|---------------------------------------------|-------------------|
| Short-circuit protection               | yes                                         |                   |
| Type of short-circuit protection       | pulsed                                      |                   |
| Overload protection                    | yes                                         |                   |
| Measuring/setting range                |                                             |                   |
| Measuring range of vibration [mm/s]    | 0...50; (RMS)                               |                   |
| Frequency range [Hz]                   | 10...1000                                   |                   |
| Number of measurement axes             | 1                                           |                   |
| Accuracy / deviations                  |                                             |                   |
| Measuring error [% of the final value] | < ± 3                                       |                   |
| Linearity deviation                    | 0,25 %                                      |                   |
| Response times                         |                                             |                   |
| Response time [s]                      | 1...60                                      |                   |
| Software / programming                 |                                             |                   |
| Adjustment of the switch point         | setting ring                                |                   |
| Operating conditions                   |                                             |                   |
| Ambient temperature [°C]               | -25...80                                    |                   |
| Note on ambient temperature            | UL application: < 80 °C                     |                   |
| Storage temperature [°C]               | -25...80                                    |                   |
| Protection                             | IP 67                                       |                   |
| Tests / approvals                      |                                             |                   |
| EMC                                    | EN 61000-4-2 ESD                            | 4 kV CD / 8 kV AD |
|                                        | EN 61000-4-3 HF radiated                    | 10 V/m            |
|                                        | EN 61000-4-4 Burst                          | 2 kV              |
|                                        | EN 61000-4-6 HF conducted                   | 10 V              |
| Shock resistance                       |                                             | 400 g             |
| MTTF [years]                           | 510                                         |                   |
| Mechanical data                        |                                             |                   |
| Weight [g]                             | 115                                         |                   |
| Type of mounting                       | M8 x 1,25                                   |                   |
| Materials                              | PBT; PC; FKM; stainless steel (316L/1.4404) |                   |
| Tightening torque [Nm]                 | 15                                          |                   |
| Displays / operating elements          |                                             |                   |
| Display                                | operation                                   | LED, green        |
|                                        | switching status                            | LED, yellow       |
| With scale                             | yes                                         |                   |
| Operating elements                     | setting ring                                | setting ring      |
| Remarks                                |                                             |                   |
| Pack quantity                          | 1 pcs.                                      |                   |

**Vibration monitor with intuitive switch point setting**

VIBRATION MONITOR

**Electrical connection**

Connector: 1 x M12; coding: A

**Connection**

|   |                  |
|---|------------------|
| 1 | L+               |
| 2 | 4...20 mA        |
| 3 | GND              |
| 4 | switching output |