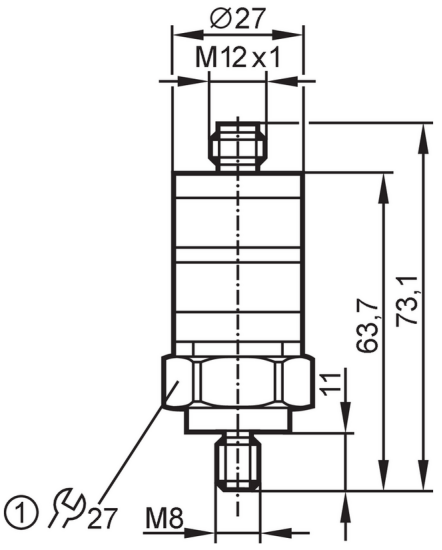
# VKV022

## 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 |
| Short-circuit protection | | yes |

# VKV022

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VIBRATION MONITOR

| | | | |
|---|---|---|---|
| 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. | |

# VKV022

## Vibration monitor with intuitive switch point setting

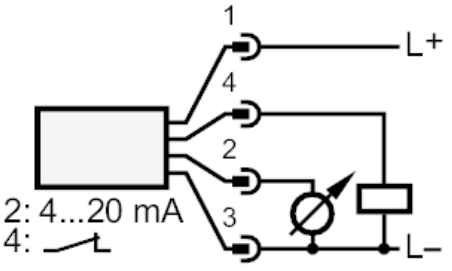
VIBRATION MONITOR

## Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4




### Connection




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