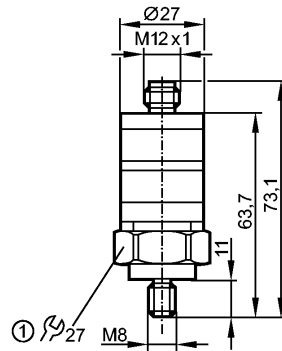


**VKV022**

VIBRATION MONITOR

Diagnostic systems



1: tightening torque 15 Nm  
M8 standard thread, 1.25 mm pitch



**Product characteristics**

Vibration sensor
VK
Connection via M12 connector
Vibration monitor to DIN ISO 10816
Measuring range RMS: 0...50 mm/s
Switching output NC DC PNP and analogue output 4...20 mA

**Application**

Application	Vibration monitor Vrms to DIN ISO 10816
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**Electrical data**

Operating voltage [V]	18...32 DC
Current consumption [mA]	< 50
Protection class	III

**Inputs / outputs**

Circuit	1 x normally closed DC PNP / 1 x analogue 4...20mA
Inputs / outputs total	2

**Outputs**

Digital	
Output function	1 x normally closed DC PNP
Max. current load per output [mA]	500
Voltage drop [V]	< 2
Short-circuit protection	pulsed
Overload protection	yes
analogue	
current output [mA]	4...20
Max. load [Ω]	< 500

**Measuring / setting range**

Delay [s]	1...60
Measuring range [mm/s]	0...50 RMS
Frequency range [Hz]	10...1000

**Accuracy / deviations**

Accuracy [% of the final value]	-
Accuracy	< ± 3

## VKV022

VIBRATION MONITOR

Diagnostic systems

Switch point accuracy	< ±4
Repeatability	< 0.5 %
Linearity	0.25 %

### Software / programming

Switch point setting	Setting ring
Switching delay	Setting ring

### Environment

Ambient temperature [°C]	-25...80, for UL applications: max. 80 °C
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

Type of sensor	Microelectromechanical system (MEMS)
Number of measurement axes	1
Housing materials	PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel 316L / 1.4404
Type of mounting	M8 x 1.25
Weight [kg]	0.113

### Displays / operating elements

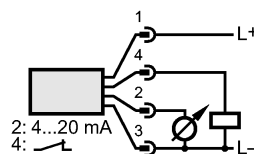
Display	Operation LED green Switching status LED yellow
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### Electrical connection

Connection	M12 connector
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#### Wiring

- 1: L+
- 2: 4...20 mA
- 3: GND
- 4: digital output (normally closed)



### Remarks

Pack quantity [piece]	1
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