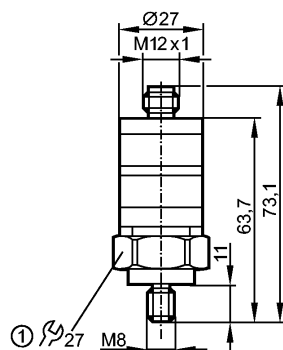


VKV021

VIBRATION MONITOR

Diagnostic systems

Yekan
تولید، تامین و کالبراسیون
تجهیزات مایه‌ریزه‌ای ارتعاش
www.Yekan-Vibro.ir



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


Product characteristics

Vibration monitor

VKV

Connection via M12 connector

Vibration monitor to DIN ISO 10816

Measuring range RMS: 0...25 mm/s

Switching output NC DC PNP and analogue output 4...20 mA

Application

Application

Vibration monitor Vrms to DIN ISO 10816

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...25 RMS

Frequency range [Hz] 10...1000

Accuracy / deviations

Accuracy [% of the final value] < ± 3

Switch point accuracy < ±4

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Diagnostic systems

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]	0.116

Displays / operating elements

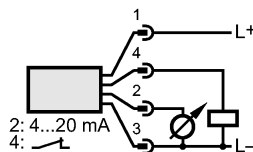
Display	Operation LED green Switching status LED yellow
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Electrical connection

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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