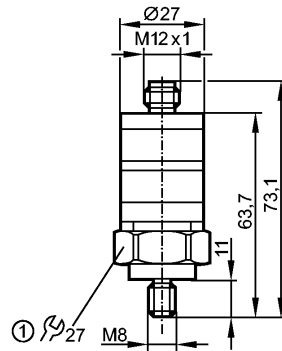


VKV021

VIBRATION MONITOR

Diagnostic systems



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
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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...25 RMS
Frequency range [Hz]	10...1000

Accuracy / deviations

Accuracy [% of the final value]	< ± 3
Switch point accuracy	< ± 4

VKV021

VIBRATION MONITOR

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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

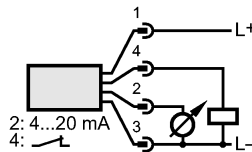
Display	Operation	LED green
	Switching status	LED yellow

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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