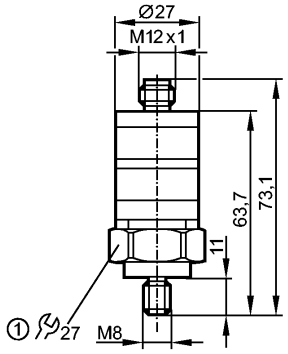
efector800

VKV022

VIBRATION MONITOR

Diagnostic systems



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

Made in Germany

Product characteristics		
Vibration sensor		
VK		
Connection via M12 connector		
Vibration monitor to DIN ISO 10816		
Measuring range RMS: 0...50 mm/s		
Switching outputs: normally closed and analogue 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
Outputs		
Digital		
Output function		1 x Öffner 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
Setting range	[[mm/s]]	0...50 RMS
Frequency range	[Hz]	10...1000
Accuracy / deviations		
Accuracy		< ± 5
Switch point accuracy		< ±4
Repeatability		< 0.5 %

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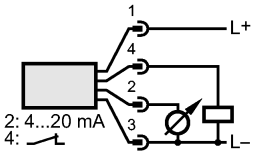
Non-linearity [in % of the span]		< ± 0.25
Environment		
Ambient temperature	[°C]	-30...125, for UL applications: max. 80 °C
Protection		IP 67
Tests / approvals		
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V
MTTF	[Years]	510
Mechanical data		
Shock resistance		400 g
Housing materials		PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel 316L / 1.4404
Weight	[kg]	0.113
Displays / operating elements		
Display		Operation LED green Switching status LED yellow
Electrical connection		
Connection		M12 connector

Wiring

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





Remarks		
Pack quantity	[piece]	1