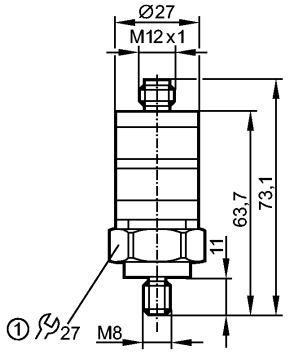
efector800

VKV021

VIBRATION MONITOR

Diagnostic systems



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

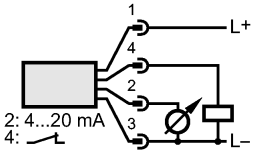
Product characteristics		
Vibration monitor		
VKV		
Connection via M12 connector		
Vibration monitor to DIN ISO 10816		
Measuring range RMS: 0...25 mm/s		
Switching output NC DC PNP and analogue output 4...20 mA		
Application		
Application		Vibration monitor Vrms to DIN ISO 10816
Electrical data		
Operating 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

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

Wiring

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





Remarks		
Pack quantity	[piece]	1