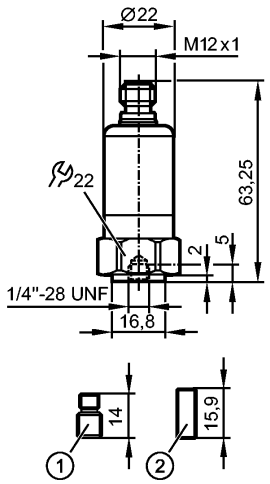
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VTV121

VIBRATION TRANSMITTER

Diagnostic systems



1: Threaded adapter 1/4"-28 UNF / M8 x 1.25 mm
2: Threaded adapter 1/4"-28 UNF
tightening torque 8 Nm

Product characteristics		
Vibration transmitter		
VTV		
Connection via M12 connector		
Vibration transmitter to ISO 10816		
Measuring range RMS: 0...50 mm/s		
Analogue output 4...20 mA		
2-wire connection technology		
Application		
Application		Vibration transmitter Vrms to ISO 10816
Electrical data		
Operating voltage	[V]	9.6...32 DC
Protection class		III
Inputs / outputs		
Inputs / outputs total		1
Outputs		
analogue		
current output	[mA]	4...20
Max. load	[Ω]	max. (Ub - 9.6 V) x 50; 720 at Ub = 24 V
Measuring / setting range		
Measuring range	[mm/s]	0...50 RMS
Frequency range	[Hz]	10...1000
Accuracy / deviations		
Accuracy	[% of the final value]	< ± 3
Repeatability		< 0.5 %
Linearity		0.25 %
Environment		
Ambient temperature	[°C]	-30...125
Protection		IP 67 / IP 68 / IP 69K

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VTV121

VIBRATION TRANSMITTER

Diagnostic systems

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 61000-4-5 Surge:	1 kV
	EN 61000-4-6 HF conducted:	10 V
Shock resistance		400 g
MTTF [Years]		865

Mechanical data

Type of sensor	Microelectromechanical system (MEMS)
Number of measurement axes	1
Housing materials	stainless steel 316L / 1.4404
Type of mounting	set screw
Weight [kg]	0.122

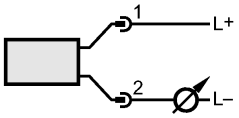
Electrical connection

Connection	M12 connector

Wiring

1: L+
2: 4...20 mA
3: not used





Remarks

Pack quantity	[piece]	1