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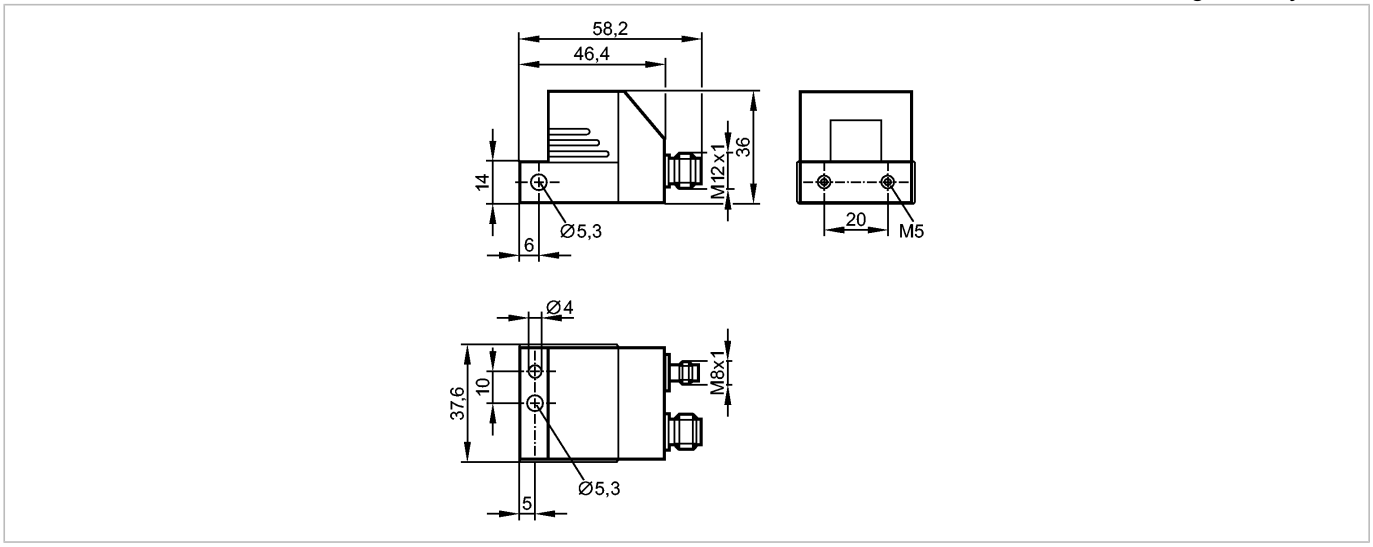
efector600

VE111A

VIBRATION DIAGNOSTIC UNIT ATEX

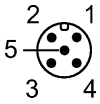
Diagnostic systems



CE

Product characteristics		
Vibration diagnostic unit		
Connection via M12 x 1 and M8 x 1 connectors		
ATEX approval		
Group II, category 3G		
Group II, category 3D		
Spectral analysis / FFT		
Envelope-curve FFT		
Trend analysis		
Application		
Application		Up to 20 frequencies in the spectrum, freely selectable, diagnostic level adjustable
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...32 DC
Current consumption	[mA]	100 (24 V) plus optional external pulse pick-up
Protection class		III
Measuring / setting range		
value range	[g]	± 25 **)
Environment		
Ambient temperature	[°C]	-20...60
Protection		IP 69K
Tests / approvals		
Marking of the unit		Ex II 3D Ex tD A22 IP69K T = 90°C X -20°C ≤ Ta ≤ 60°C Ex II 3G Ex nA II T4 X
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
Mechanical data		
Housing materials		housing: diecast zinc
Overload protection [g]		100
Weight	[kg]	0.243
Electrical connection		
Connection		M12 connector; M8 connector
Wiring		

VE111A - Vibration diagnostic unit - eclass: 27201406 / 27-20-14-06

Plug M8 (RS485 communication)  	Pin 1: - Pin 2: B Pin 3: - Pin 4: A
 	M12 connector (electrical connection) Pin 1: supply + Pin 2: red function; switching output 2 / 100 mA / NO/NC programmable Pin 3: supply - Pin 4: yellow function; switching output 1 / 100 mA / NO/NC programmable Pin 5: rotational speed, 0...20 mA or pulse input

Remarks

Remarks	**) nominal ± 20 Pin 2 (switching output 2) and pin 4 (switching output 1) can only be programmed in pairs
Pack quantity [piece]	1

Other data

Sensing principle	micromechanical accelerometer / capacitive measuring principle / one measurement axis
Minimum measuring time [s]	0.8
Frequency range [Hz]	3...6000
Spectral resolution [Hz]	1.25
Speed range [rpm]	120...12000 (the actual rotational speed range depends on the type of the rolling element bearing and can therefore differ)

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