

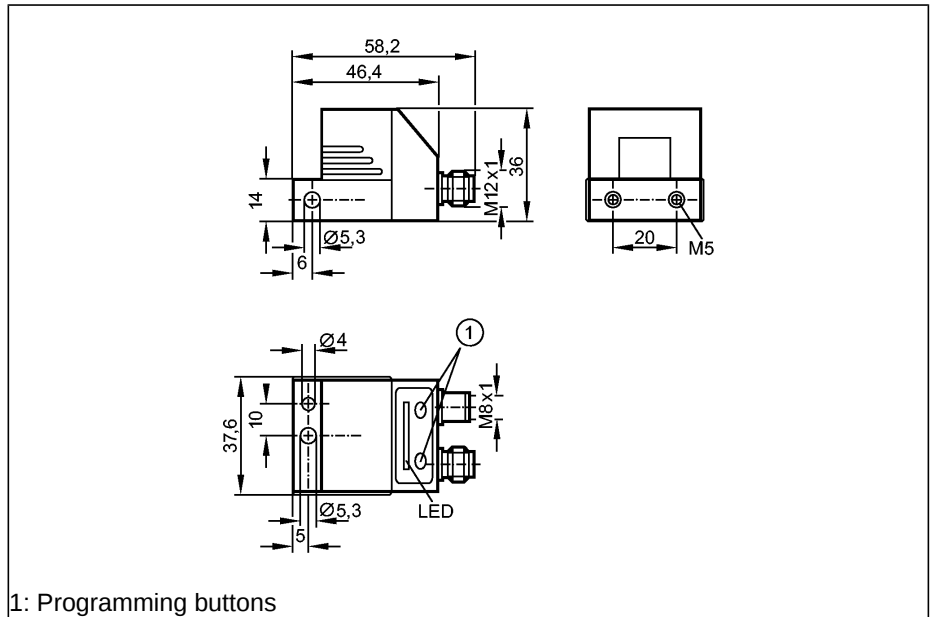
Diagnostic systems

**VE1001**

Vibration diagnostic unit  
VE

Connection via M12 x 1 and M8 x 1  
connectors

Spectral analysis / FFT  
Envelope-curve FFT  
Peak  
V eff RMS  
Trend analysis



1: Programming buttons



Made in Germany



<b>Application</b>	
<b>Electrical design</b>	
Operating voltage	[V]
Current consumption	[mA]
Measuring range	[g]
Sensing principle	
Overload protection [g]	
Minimum measuring time [s]	
Frequency range [Hz]	
Spectral resolution [Hz]	
Speed range [rpm]	

<b>Vibration monitoring of up to 5 diagnosis values and 2 g-monitors</b>
<b>DC PNP</b>
10...32 DC
100 (24 V DC) *)
± 25 **)
micromechanical accelerometer / capacitive measuring principle / one measurement axis
100
0.8 / 8 ***)
0.125...500 / 3...6000 ***)
0.125 / 1.25 ***)
12...1500 or 120...12000 (the actual rotational speed range depends on the type of rolling element bearing and can therefore differ)

**VE1001**

Ambient temperature	[°C]	-30...60
Protection		IP 67, III
EMC		IEC 1000-4-2/3/4/6
Housing materials		housing: diecast zinc nickel-plated; keypad: polyester
Connection		M12 connector; M8 connector
Weight	[kg]	0.232
Remarks		<p>*) plus optional external pulse pick-up                  **) nominal ± 20                  ***) depending on the configuration                  history memory: 2580 data sets as ring buffer                  Pin 2 (switching output 2) and pin 4 (switching output 1) can only be programmed in pairs</p>
<b>Wiring</b>		<p>M8 connector (RS-232 communication)</p>  <p>Pin 1: -                  Pin 2: TxD                  Pin 3: GND                  Pin 4: RxD</p> <p>M12 connector (electrical connection)</p>  <p>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</p>