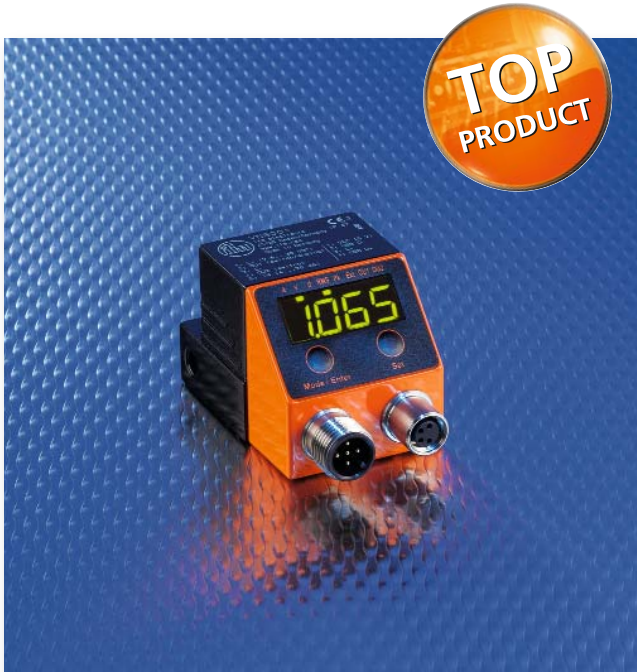
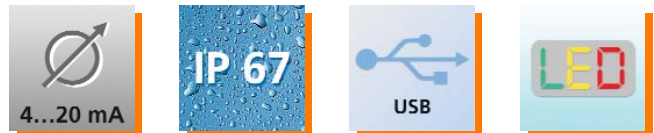


Intelligent vibration switch – simply smart



Online monitoring of vibration severity according to ISO 10816

- Electronic vibration switch with analogue output
- Monitoring, display and recording of vibration values in one compact field unit
- Easy set-up and installation using push-buttons for parameter setting
- Dual measurement point capability, additional process value e.g. temperature
- On-board time stamped history function for data collecting and trending



Compact vibration sensor

The VNB001 is the first member of a new series of compact vibration sensors. It is used for online monitoring of overall vibration of machines and equipment according to ISO 10816. This unit is distinguished by its simple set-up, requiring no PC software for parameter setting.

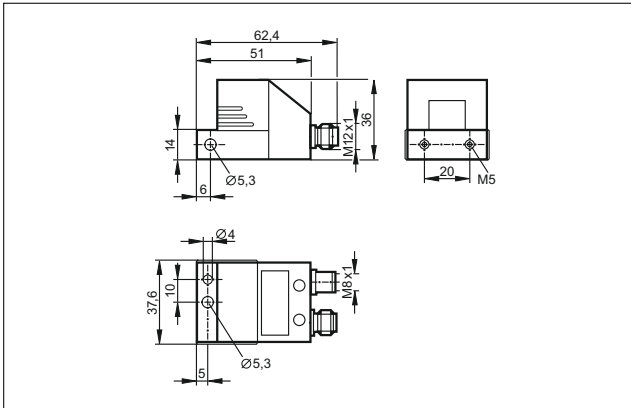
Function

The unit is based on the proven, reliable efector *octavis* technology and can also be used for applications in the mobile sector. The sensor measures the average vibration velocity (mm/s or in/s). Measurement value and switchpoint conditions are visualised on the LED display. Critical machine conditions are signalled using either 2 switching outputs or alternatively 1 switching and 1 analogue output. Additionally the operator can use the analogue input to monitor a further process value e.g. temperature. Alternatively the unit can be powered using the integrated USB interface providing the option of using the VN as a hand-held device.

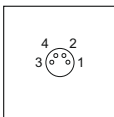


Vibration sensor VN
Process connection via M12 x 1 and M8 x1 connectors
Pushbutton parameter setting

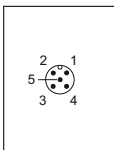
Dimensions



Wiring diagram



Pin 1: 5 V via USB interface
Pin 2: USB_P
Pin 3: L-
Pin 4: USB_M



Pin 1: L+
Pin 2: Out 1 switching output or current output 4...20 mA programmable
Pin 3: L-
Pin 4: Out 2 switching output
Pin 5: In 4...20 mA DC

Technical data



Vibration sensor VNB001		
Operating voltage	[V]	9.6...30 DC or using USB*
Output		2 switching outputs or 1 switching output and 1 analogue output 4...20 mA (programmable)
Input	[mA]	1 analogue input 4...20
Display		4-digit alphanumeric display
Measuring range	[mm/s]	max. 500 programmable
Measurement values		v peak or v rms 2...1000 Hz / 10...1000 Hz
History memory		8 MB i.e. 342,534 entries, storage interval 5 minutes
Data interface		USB
Ambient temperature	[°C]	-30...60
Protection		IP 67
Selftest		•

* The switching outputs are not active if the unit is powered via USB.

Accessories

Type	Description	Order no.
	USB / M8 cable	E30136
	Adapter UNF / M5 (pack quantity 10 pieces)	E30137
	Power supply	E30080

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC073
	Socket, M12, 2 m black, PUR cable	EVC070