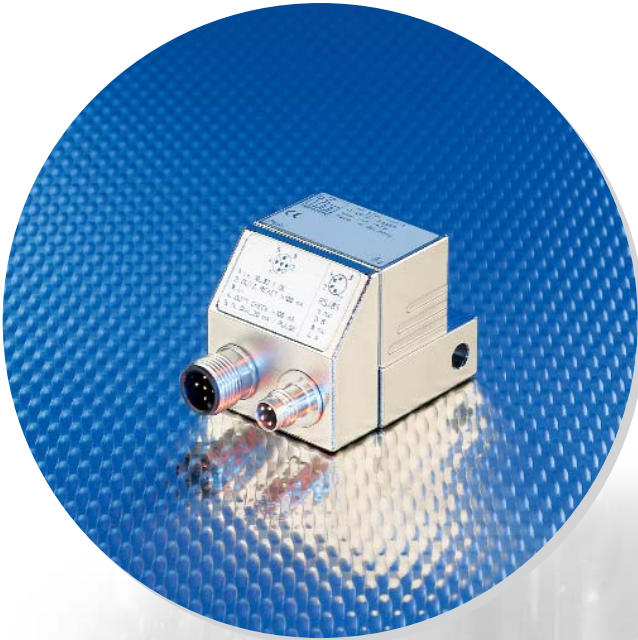




# efector<sup>®</sup> octavis – the new approach in machine diagnosis.



**Vibration sensor with ATEX approval, group II, category 3D and 3G.**

- Type VE with RS-485 communication interface.
- Interference immune data transfer.
- Transfer lengths up to 200 m.
- Detects unbalance, rolling element bearing damage, alignment errors, meshing.
- For optimum uptime of critical machines.



## Networkable decentralised machine diagnosis

efector octavis detects unbalance, damage to rolling element bearings, alignment errors and meshing in good time. This allows optimisation of the uptime of plant parts such as gears, electric motors, ventilators and spindles and increasing the efficiency in production. The compact diagnostic system analyses the vibration signals according to the methods of frequency analysis. A micromechanical accelerometer acts as the sensing element. The data are recorded, analysed and assessed by the system in a decentralised way. Expert knowledge is not required for this. The RS-485 communication interface allows to transfer diagnostic values and calculated spectra to central control systems.

Machine damage is detected as it arises. Maintenance measures can thus be planned and efficiently implemented.



fluid sensors and diagnostic systems

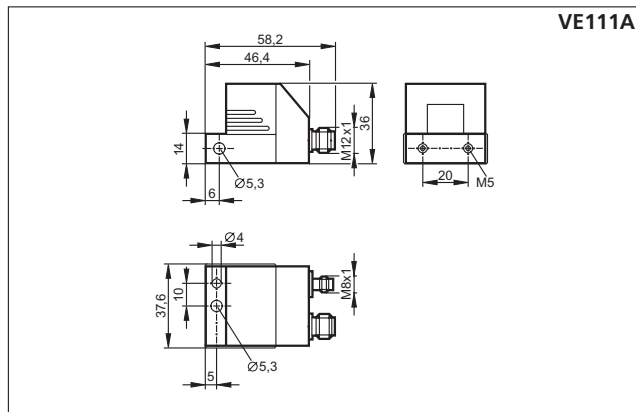
position sensors and object recognition

bus, identification and control systems



Up to 20 frequencies in the spectrum, freely selectable, diagnostic level adjustable, evaluation and diagnosis in one unit, 2 switching outputs; sensing principle: micromechanical accelerometer, capacitive measuring principle, one measurement axis

Frequency range [Hz]	Spectral resolution [Hz]	Speed range [U/min]	Operating voltage [V]	Temperature range [°C]	Minimum measuring time [s]	Protection	Order no.
3...6000	1.25	120...12000	10...32 DC	-20...60	0.8	IP 69 K, III	VE111A
0.125...500	0.125	12...1500	10...32 DC	-20...60	8	IP 69 K, III	VE112A

**Dimensions**



**Other technical data**









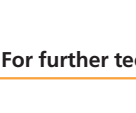
ATEX approval group II, category 3D and 3G	
Current consumption [mA]	100 (24 V DC)*
Measuring range [g]	± 25 (nominal ± 20)
Overload protection [g]	100
Housing material	diecast zinc
EMC	IEC 1000-4-2/3/4/6
Approval	 II 3D IP 69 K T90 °C X  II 3G EEx nA II T4 X

\*plus optional external pulse pick-up






**Electrical connection M12 connector**

PIN 1	supply +
PIN 2	red function, switching output 2, 100 mA, NC / NO programmable
PIN 3	supply -
PIN 4	yellow function, switching output 1, 100 mA, NC / NO programmable
PIN 5	rotational speed, 0...20 mA or pulse pick-up

**Connectors and splitter boxes (to be ordered separately)**

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	E10966
	M12 socket, 5 m black, PUR cable	E10967
	M12 socket, 5 m orange, PVC cable	E10954
	M12 socket, 10 m orange, PVC cable	E10955
	M8 socket, 2 m black, PUR cable	E11196
	M8 socket, 5 m black, PUR cable	E11197
	M8 socket, 10 m black, PUR cable	E11198
	Lockring for M12 connector	E11532
	Lockring for M8 connector	E11915

**Accessories (to be ordered separately)**

Type	Description	Order no.
	Parameter setting software	VES001
	USB/RS-485 converter	E30098
	Pulse pick-up	E30082
	Power supply, 24 V	E30080
	Y connection cable	E11664

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