



VBR

VBR1/D0-3A

**Vibration, shock and inclination sensor,
3-axis, RS485 + Analogue, 2m cable exit**
VIBRATIONS AND INCLINATION SENSOR

OVERVIEW

- M18 housing
- AISI316L stainless steel housing (front included)
- IP67 protection degree



TECHNICAL FEATURES

Detection properties

Operative range	$\pm 2g$; $\pm 4g$; $\pm 8g$; $\pm 16g$ (selectable)
Resolution	15,62mg @ $\pm 2g$ 31,25mg @ $\pm 4g$ 62,50mg @ $\pm 8g$ 125mg @ $\pm 16g$
Detection Axes	3 (X, Y, Z)

Application

Technology	MEMS
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Outputs

Output type	Digital + Analogue (I/V selectable)
Output Function	Vibration amplitude
Digital Output	RS485 57600 baud rate - 1 bit stop - no parity
Voltage Analogue Output	0...5V / 0...10V (selectable)
Current Analogue Output	4...20mA / 0...20mA / 0...24mA (selectable)

Electrical data

Operating Voltage	19,2 ... 28,8 Vdc
Power consumption	< 1 W
LED indicators	Green: Run mode Yellow: writing/programming memory Blue: transit of RS485 packet data Red: Interrupt active
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Frequency Range	0 ... 400Hz
Digital Resolution	16 bit @RS485 (complementary to 2)
Analogue Resolution	12 bit
Load Resistor (Voltage)	1kΩ ... 1MΩ
Load Resistor (Current)	100 ... 500Ω

Mechanical data

Dimensions	M18

Housing material	Stainless steel AISI316L (body) Grilamid (cable exit)
Connections	2 m - 5 poles cable
Active Head Material	Stainless steel AISI316L
Operating temperature	-25°C ...+70°C
Storage temperature	-30°C ... + 90°C (without ice)
Humidity	< 80% (without condensation)

Test/Approvals

Approvals	CE
Degree of protection	IP67

Accessories

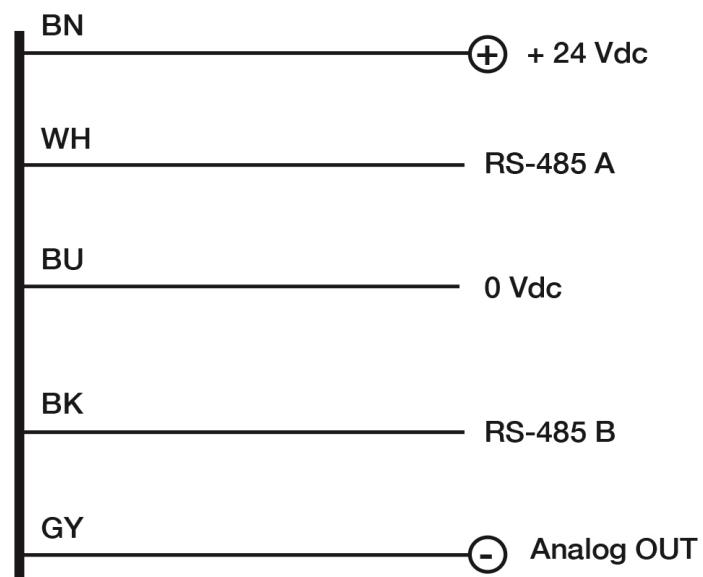
Supplied Accessories	2 x nuts
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Generical Data

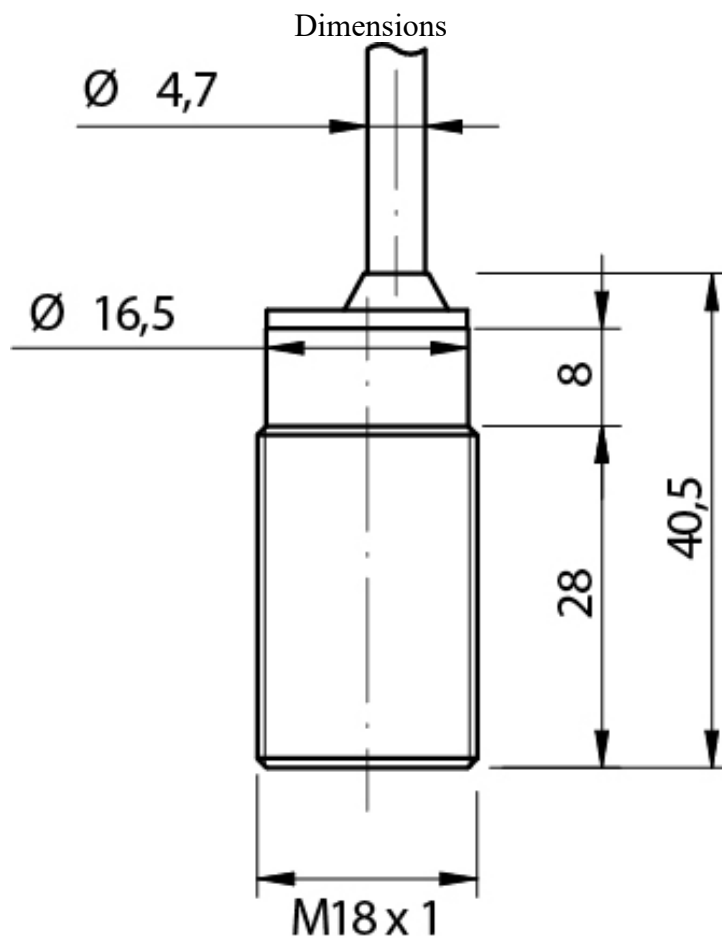
Dimensions	M18
Operating Temperature	-25°C ...+70°C
Humidity	< 80% (without condensation)
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram



OTHERS



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