



VBR

VBR1/D0-3V

Vibration, shock and inclination sensor,
3-axis, RS485 + Analogue, M12 pigtail
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)	1k Ω ... 1M Ω
Load Resistor (Current)	100 ... 500 Ω

Mechanical data

Dimensions	M18
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Housing material	Stainless steel AISI316L (body) Grilamid (cable exit)
Connections	pigtail 200mm + M12- 5 poles
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

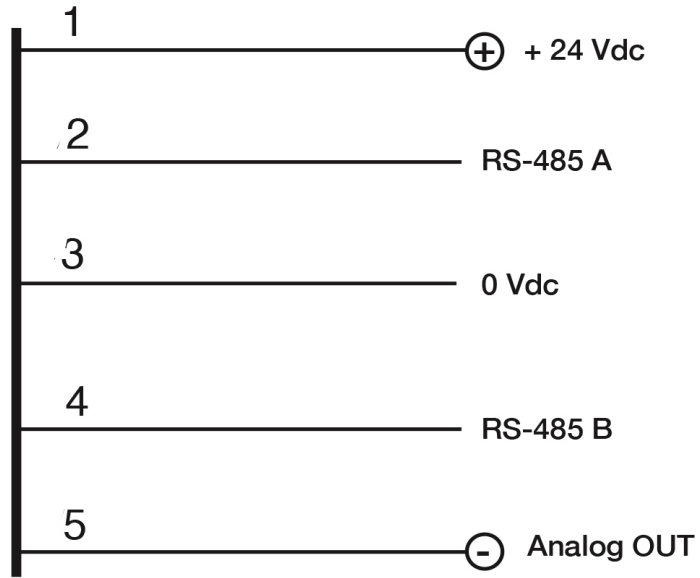
Supplied Accessories	2 x nuts
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Generical Data

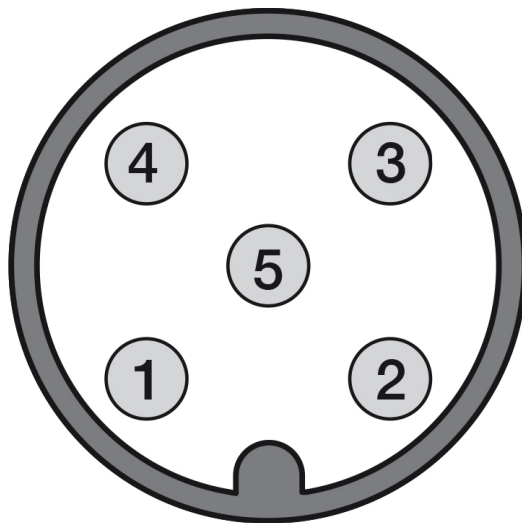
Dimensions	M18
Operating Temperature	-25°C ...+70°C
Humidity	< 80% (without condensation)
Mechanical Protection	IP67

CONNECTIONS

Electrical diagram

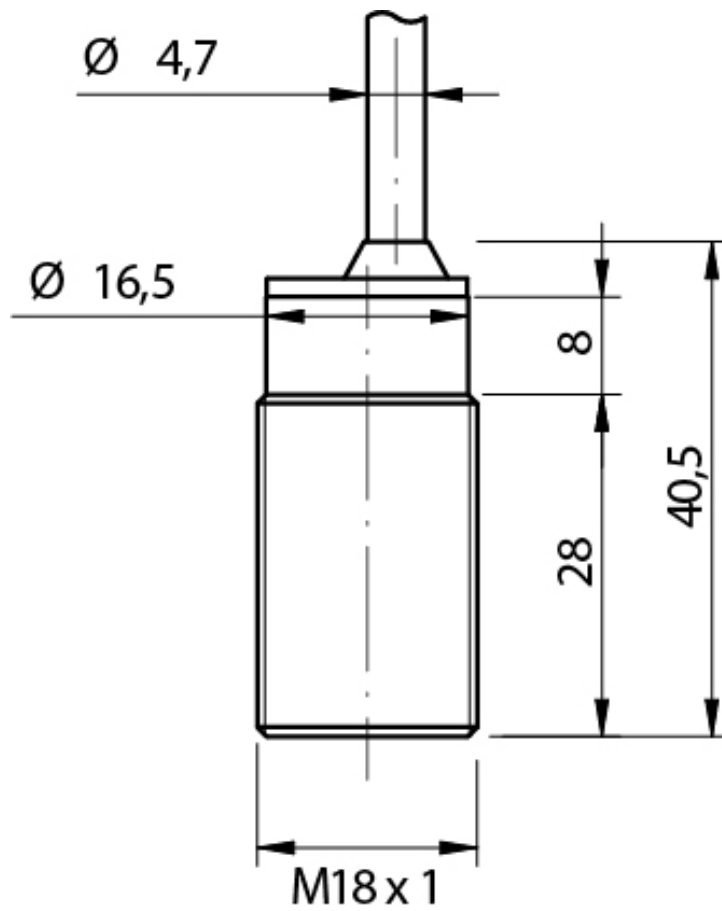


Connector



OTHERS

Dimensions



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