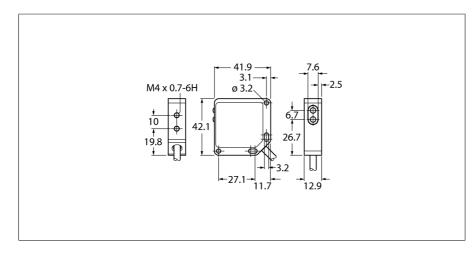


Vibration & Temperature Sensor Synchronous Serial Interface Modbus RTU QM42VT2QP

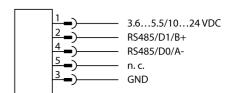


Туре	QM42VT2QP	
ID	3800955	
Wireless data		
Function	Vibration sensor	
Device type	Sensor	
I/O data		
Communication protocol	Modbus RTU	
	RS485	
Electrical data		
Operating voltage	1024 VDC	
Power-on indication	LED, Yellow	
Mechanical data		
Design	Rectangular, QM42VT	
Housing material	Die-cast zinc, ZN, Black	
Electrical connection	Cable with connector, M12 × 1, 0.15 m	
Antenna connection	No radio participant	
Ambient temperature	-40+85 °C	
Protection class	IP67	

For detecting temperature and vibration
values

- Sturdy zinc case
- Protection class IP67
- M12 x 1 cable with male end, PVC, 150 mm, 5-pin
- Operating voltage: 10...24 VDC or 3.6...5.5 VDC
- Temperature measuring range: -40... 105 °C
- Resolution: 1 °C
- Accuracy: ± 3 °C
- Vibration measuring range: 0...65 mm/s
- Frequency range: 10...1000 Hz
- Accuracy: ± 10 % at 25 °C
- Shock resistant up to 400g
- RS485 interface, supports Modbus RTU
- BWA-BK-005 mounting plate kit included in delivery

Wiring Diagram



Functional principle

This sturdy sensor in a metal housing was developed to monitor vibrations and the temperature of moving machine parts. The data can be transferred to a controller via the RS485 interface, thus enabling an imminent failure of the machine to be identified at an early stage and corrective action to be taken. The rugged housing is IP67-rated and allows the detection of vibrations on two axes. The sensor can be mounted or stuck on the machine with the relevant accessories.

Tests/approvals



Accessories

Type code	Ident no.		Dimension drawing
BWA-BK-005	3800831	Mounting plate kit contains SMB42FLAT stainless steel bracket, screw set and 1x thermoconductive adhesive tape, recommended for carrying out high-frequency measurements or when mounting on uneven surfaces	41.9 [1.65] M3 × 0.5 A 44.0 17] M3 × 0.5 11.66] M3 × 0.5 M3 × 0.5 35.7 [1.40] A 0 6.6 [0.26] A - A
BWA-BK-001	3095664	Mounting plate kit contains SMB42FLM12 magnetic bracket and two screws	41.9 [1.65] M3 × 0.5 41.9 [1.65] 35.9 [1.66] (1.41) M3 × 0.5 35.7 [1.40] 3.5 [0.14]
BWA-HW-057	3094931	Thermoconductive adhesive tape, set of 3, 0.5 mm thickness	

Function accessories

Type code	Ident no.		Dimension drawing
BWA-HW-006	3081325	Converter cable, RS485 to USB 2.0 converter, female connector, M12 × 1, 5-pin, male connector, USB type A, length 1 m; supplies the connected device with 10 V. An external power supply via a Y-splitter (6634679) is recommended for the connected device	M18 x 1 64 M12 x 1 99 780