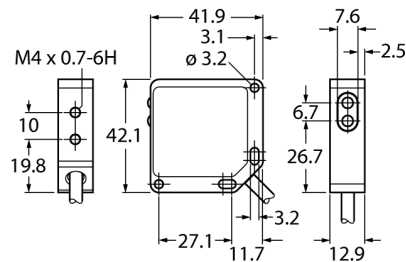


Vibration & Temperature Sensor With Serial Interface For Connecting to a DX80 Radio Node QM42VT1QP



- 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: 3.6...5.5 VDC
- Temperature measuring range: -40...105 °C
- Resolution: 1 °C
- Accuracy: ± 3 °C
- Vibration measuring range: 0...65 mm/s RMS
- Frequency range: 10...1000 Hz
- Accuracy: ± 10 % at 25 °C
- Shock resistant up to 400 g
- Serial interface to connect a DX80 radio participant
- BWA-BK-005 mounting plate kit included in delivery

Type	QM42VT1QP
ID	3802369

Wireless data	
Function	Vibration sensor
Device type	Sensor

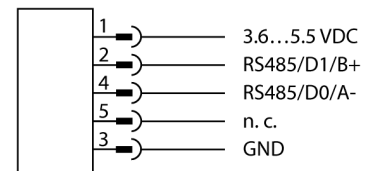
I/O data	
Communication protocol	1-wire-serial

Electrical data	
Operating voltage	3.6...5.5 VDC
Power-on indication	LED, Yellow

Mechanical data	
Design	Rectangular, QM42VT
Housing material	Die-cast zinc, ZN
Electrical connection	Cable with connector, M12 x 1, 0.15 m
Antenna connection	No radio participant
Ambient temperature	-40...+85 °C
Protection class	IP67

Tests/approvals	
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Wiring Diagram



Functional principle

This sensor is especially designed for supply via FlexPower node. It features a lower power consumption and a short warm-up period.

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	
BWA-BK-001	3095664	Mounting plate kit contains SMB42FLM12 magnetic bracket and two screws	
BWA-HW-057	3094931	Thermoconductive adhesive tape, set of 3, 0.5 mm thickness	

Function accessories

Type code	Ident no.		Dimension drawing
BWA-USB1WIRE-001	3079714	Converter cable, for connecting serial sensors in the M12FT...4Q, QM42VT1, K50UX1RA etc. series to the PC, supports baud rates 9600, 19200 and 38400 Bd, USB 2.0 Type A male connector to female connector, M12 x 1, 5-pin, supply: 5 V supply via USB for powering 1 sensor, total length: 1 m	
DX80N2Q45VT	3088439	Q45 wireless sensor, internal battery supply, protection class IP67, serial interface to connect a vibration and temperature sensor	
DX80N2X1S-P6	3018657	DX80 FlexPower nodes, internal battery supply, external antenna, protection class IP67, serial interface to connect a sensor	

Function accessories

Type code	Ident no.		Dimension drawing
DX80N2Q45U	3800203	Q45 wireless sensor, internal battery supply, protection class IP67, serial interface to connect various sensors	
DX80N2X6S-P6	3095667	DX80 nodes, 10...30 DC power supply, external antenna, protection class IP67, serial interface to connect a sensor	
DX80DR2M-H6	3014392	DX80 Data Radio, internal battery supply, external antenna, protection class IP67, serial interface to connect a sensor, RS485 interface to communicate via Modbus RTU	