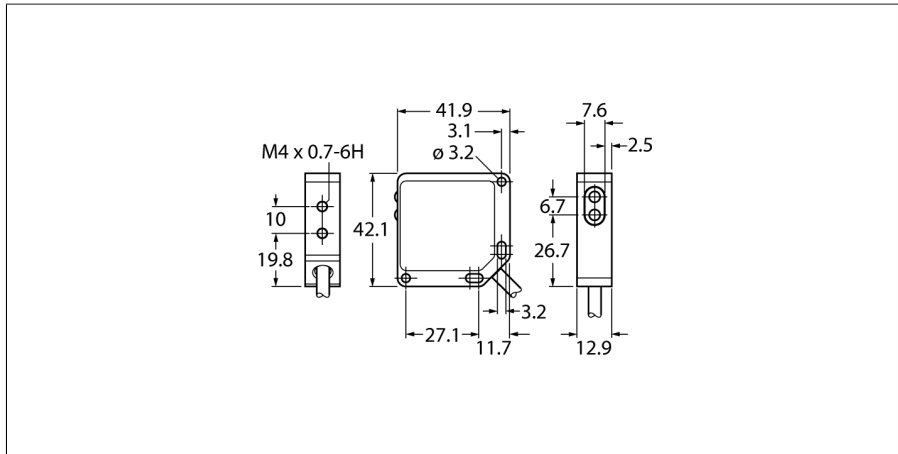


# Vibration & Temperature Sensor With Serial Interface For Connecting to a DX80 Radio Node QM42VT1



- For detecting temperature and vibration values
- Sturdy zinc case
- Protection class IP67
- PVC cable, 3 m, with M12 × 1 male connector, 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 400g
- Serial interface to connect a DX80 radio participant
- BWA-BK-005 mounting plate kit included in delivery

Type	QM42VT1
ID	3094597

Wireless data	
Function	Vibration sensor
Device type	Sensor

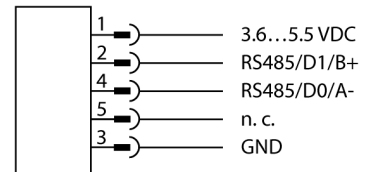
I/O data	
Communication protocol	1-wire-serial

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, Black
Electrical connection	Cable with connector, M12 × 1, 3 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	<p>Technical drawing of the DX80N2Q45U wireless sensor. It shows two views: a front view and a side view. The front view shows a rectangular device with a circular sensor element on top. Dimensions include a width of 44.5 (1.751), a height of 2.1 (0.08), and a depth of 44.5 (1.751). The side view shows a height of 55.2 (2.18) and a depth of 44.5 (1.751).</p>
DX80N2X6S-P6	3095667	DX80 nodes, 10...30 DC power supply, external antenna, protection class IP67, serial interface to connect a sensor	<p>Technical drawing of the DX80N2X6S-P6 node. It shows a 3D perspective view of a rectangular device with a yellow top cover and an external antenna. Dimensions include a diameter of <math>\phi 5.5</math>, a thread of M12 x 1, a height of 57, a width of 65, a depth of 80.8, and a total width of 127.</p>
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	<p>Technical drawing of the DX80DR2M-H6 data radio. It shows a 3D perspective view of a rectangular device with a yellow top cover and an external antenna. Dimensions include a diameter of <math>\phi 5.5</math>, a thread of M12 x 1, a height of 57, a width of 65, a depth of 80.8, and a total width of 127.</p>