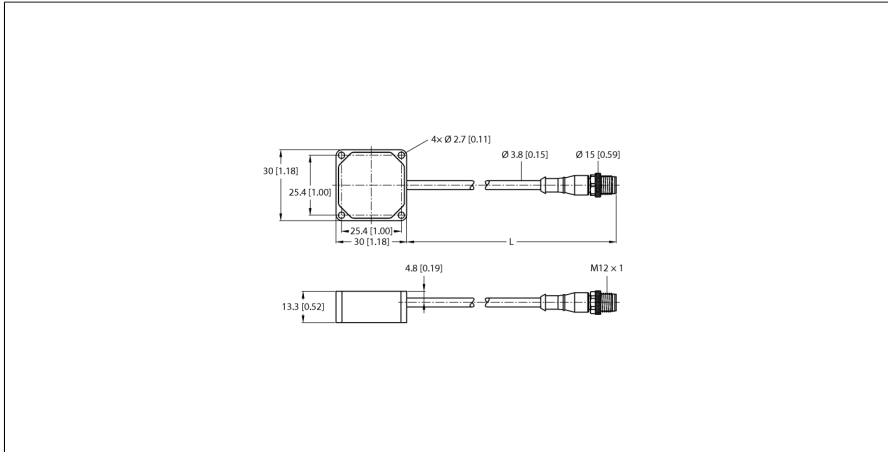


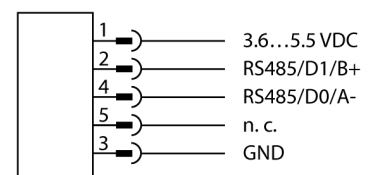
Vibration & Temperature Sensor With Serial Interface For Connecting to a DX80 Radio Node QM30VT1



Type	QM30VT1
ID	3806275
Wireless data	
Function	Vibration sensor
Device type	Sensor
I/O data	
Communication protocol	1-wire-serial
Electrical data	
Operating voltage U_s	3.6...5.5 VDC
Mechanical data	
Design	Rectangular, QM30VT
Housing material	Aluminium, AL, Black-finished
Electrical connection	Cable with connector, M12 × 1, 2.09 m
Antenna connection	No radio participant
Ambient temperature	-40...+105 °C
Protection class	IP67
Tests/approvals	

- For detecting temperature and vibration values
- Robust aluminum housing
- Protection class IP67
- PVC cable, 2.09 m, with M12 × 1 male connector, 5-pin
- Shock resistant up to 400 g
- BWA-BK-022 mounting plate kit included in delivery
- Temperature measuring range: -40... 105 °C
- Resolution: 1 °C
- Accuracy: ± 3 °C
- Vibration measuring range: 0...46 mm/s RMS
- Frequency range: 10...4000 Hz
- Accuracy: ± 10 % at 25 °C
- Operating voltage: 3.6...5.5 VDC
- Serial interface to connect a DX80 radio participant

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.

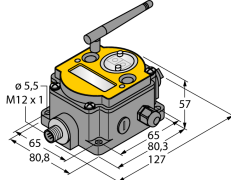
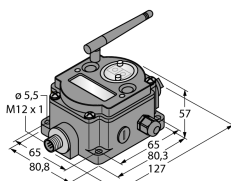
Accessories

Type code	Ident no.		Dimension drawing
BWA-BK-022	3810633	Mounting plate kit for QM30VT sensors, aluminum, screw set and self-adhesive foil included	

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 × 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	
DX80N2Q45U	3800203	Q45 wireless sensor, internal battery supply, protection class IP67, serial interface to connect various sensors	

Function accessories

Type code	Ident no.		Dimension drawing
DX80N2X6S-P6	3095667	DX80 nodes, 10...30 DC power supply, external antenna, protection class IP67, serial interface to connect a sensor	 <p>Technical drawing showing the dimensions of the DX80N2X6S-P6 node. The drawing is an isometric view of a rectangular metal enclosure with a yellow top cover and a silver antenna. Dimensions are indicated with dashed lines and arrows: a diameter of 5.5 mm for the top cover, an M12 x 1 thread for the top cover, a height of 57 mm, a width of 65 mm, a depth of 80.8 mm, a front width of 80.3 mm, and a total width of 127 mm.</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 showing the dimensions of the DX80DR2M-H6 data radio. The drawing is an isometric view of a rectangular metal enclosure with a silver top cover and a silver antenna. Dimensions are indicated with dashed lines and arrows: a diameter of 5.5 mm for the top cover, an M12 x 1 thread for the top cover, a height of 57 mm, a width of 65 mm, a depth of 80.8 mm, a front width of 80.3 mm, and a total width of 127 mm.</p>