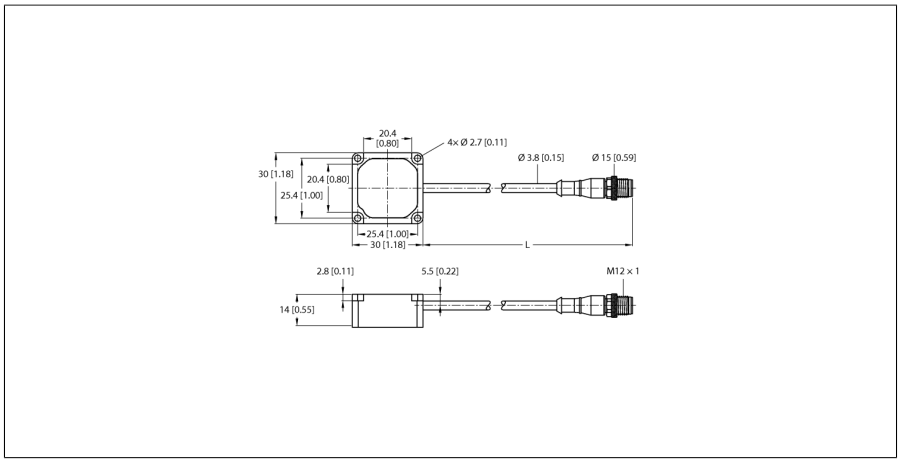
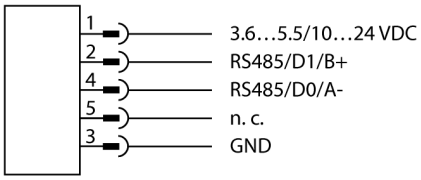
# Vibration & Temperature Sensor With Serial Interface Modbus RTU QM30VT2-SS-9M



| | |
|---|---|
| Type | QM30VT2-SS-9M |
| ID | 3806274 |
| **Wireless data** | |
| Function | Vibration sensor |
| Device type | Sensor |
| **I/O data** | |
| Communication protocol | Modbus RTU<br>RS485 |
| **Electrical data** | |
| Operating voltage $U_B$ | 10…24 VDC |
| **Mechanical data** | |
| Design | Rectangular, QM30VT |
| Housing material | Stainless steel |
| Electrical connection | Cable, 9.1 m |
| Antenna connection | No radio participant |
| Ambient temperature | -40…+105 °C |
| Protection class | IP69 |
| **Tests/approvals** | |

- For detecting temperature and vibration values
- Robust stainless-steel housing
- Protection classes IP67/IP69K
- PVC cable, 9.1 m
- Shock resistant up to 400 g
- BWA-BK-023 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: 10…24 VDC or 3.6… 5.5 VDC
- RS485 interface, supports Modbus RTU

### 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

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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.

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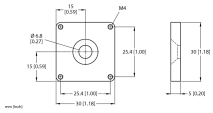
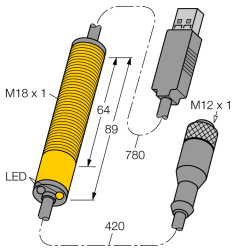
## Accessories

| Type code | Ident no. | | Dimension drawing |
|---|---|---|---|
| BWA-QM30-FTSS | 3810634 | Mounting plate kit for QM30VT-SS sensors, stainless steel, screw set included |  |

## 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 |  |

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