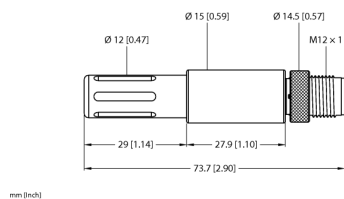


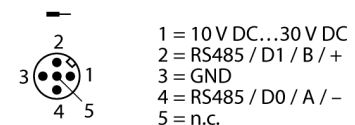
Temperature and Humidity Sensor With Serial Interface RS485/Modbus RTU S15S-TH-MQ



Type	S15S-TH-MQ
ID	3812242
Wireless data	
Function	Temperature/humidity sensor
Device type	Sensor
I/O data	
Communication protocol	RS485 Modbus RTU
Electrical data	
Mechanical data	
Design	Cylinder, threaded, S15S
Housing material	Metal/plastic, Black
Electrical connection	Connector, M12 × 1
Antenna connection	No radio participant
Ambient temperature	-40...+70 °C
Relative humidity	0...100%
Protection class	IP67 IP68
Tests/approvals	

- Temperature and humidity measurement rate: 3 s
- Relative humidity measurement range: 0...100 %
- Resolution: 0.1 %, average accuracy: 3 %
- Temperature measuring range: -40...+85 °C
- Resolution: 0.1 °C, average accuracy: 0.7 °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, allowing an imminent failure of the machine to be detected 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.

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	