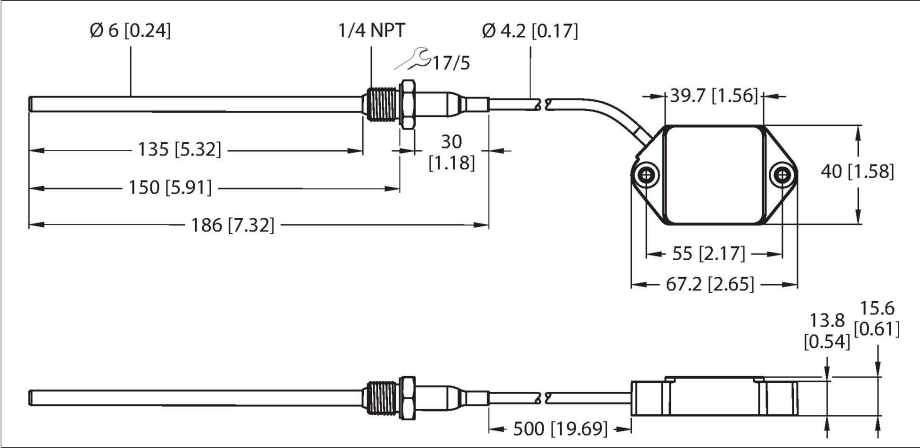


TW-Q40-L67-1EXT-TD-1/4-500-L150-I-B1378

HF Tag with External Temperature Sensor



Technical data

Type	TW-Q40-L67-1EXT-TD-1/4-500-L150-I-B1378
ID	100010891
Remark to product	Division of the Memory Area: Block 0...8 contains the configuration of the tag and must not be overwritten under any circumstances! Block 9 contains the measured values. Blocks 10...1368 are freely available for storing further user data.
Data transfer	Inductive coupling
Technology	HF RFID
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693 NFC Typ 5
Ambient temperature	0...+70 °C
Storage temperature	-45...+85 °C
Design	Hard tag, Q40
Housing material	Metal/plastic, PBT-GF30-V0, Red
Active area material	Plastic, PBT-GF30-V0, Red
Protection class	IP67
Packaging unit	1

Technical data

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ID	100010891
Remark to product	Division of the Memory Area: Block 0...8 contains the configuration of the tag and must not be overwritten under any circumstances! Block 9 contains the measured values. Blocks 10...1368 are freely available for storing further user data.
Data transfer	Inductive coupling
Technology	HF RFID



Features

- Measuring range -40 °C...+125 °C
- Accuracy (without calibration): 0.5 °C (max) from 0 °C to +65 °C
- 1.0 °C (max) from -40 °C to +125 °C

Functional principle

The HF read/write devices operating at a frequency of 13.56 MHz form a transmission zone the size of which (0...500 mm) varies, depending on the combination of read/write head and tag used.

The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials.

The read/write distances of tags suitable for mounting in/on metal were determined in/on metal.

Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal).

Testing of the application under real operating conditions is therefore essential, especially with on-the-fly reading and writing!

Technical data

Operating frequency	13.56 MHz
Memory type	FRAM
Memory size	1378 Byte
Memory	Read/Write
Freely usable memory	1378 Byte
Number of read operations	unlimited
Number of write operations	10 ⁵
Typical read time	2 ms/Byte
Typical write time	3 ms/Byte
Radio communication and protocol standards	ISO 15693 NFC Typ 5
Location of sensor 1	External
Number of sensors	1
Sensor 1	Digital temperature sensor
Type of data logging	If the tag is in the detection area of the read/write head
Minimum distance to metal	10 mm
Ambient temperature	0...+70 °C
Storage temperature	-45...+85 °C
	RFID part
Design	Hard tag, Q40
Housing length	67.2 mm
Housing width	40 mm
Housing height	15.6 mm
Housing material	Metal/plastic, PBT-GF30-V0, Red
Active area material	Plastic, PBT-GF30-V0, Red
Protection class	IP67
Packaging unit	1