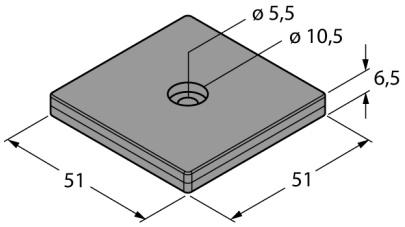
Mobile high-temperature data carrier
TW-Q51-HT-B128



Type code	TW-Q51-HT-B128
Ident no.	7030364
Data transfer	inductive coupling
Operating frequency	13.56 MHz
Memory type	EEPROM
Chip	NXP I-Code SLI/SL2
Memory	128 byte
Memory	read/write
Freely usable memory	112 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
Minimum distance to metal	10 mm
Ambient temperature	-25…+85 °C
Storage temperature	-55…+210 °C
	200 °C, 60 min.
	220 °C, 45 min.
	240 °C, 30 Minutes
Design	Q51
Housing length	51 mm
Housing width	51 mm
Housing height	6.5 mm
Housing material	Plastic
Material active face	Plastic, Black, PPS
Protection class	IP68
Packaged quantity	1
Special features	High- temperature, for use in autoclaves

- **The high-temperature data carriers must undergo adequate stress tests within the proposed temperature range before deployment. Otherwise, their durability cannot be guaranteed when exposed to temperatures outside the denoted range.**
- **EEPROM, memory 128 byte**

Functional principle

The HF read/write heads 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 data carrier.

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

The read/write distances of data carriers 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 read/write on-the-fly!

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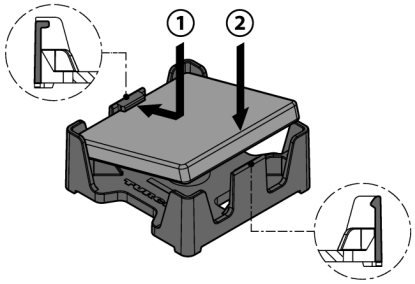
Mounting instructions



Mounting the data carrier properly in the retainer

To avoid damage to the retainer,
follow the instructions below.
Carefully push both sides of the data carrier in the retainer until they latch (the latches are designed differently):
1. Insert data carrier
2. Latch data carrier

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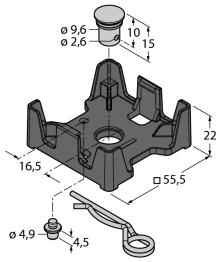
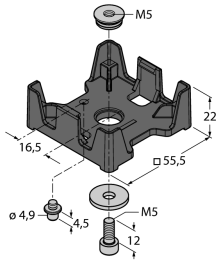
Accessories

Type code	Ident no.	Description	Dimension drawing
TH-Q51S-HT	7030541	Retainer with spring cotter for Q51 data carrier. Locating pin, 4.5 mm, maintains data carrier in position. For direct mounting on metal. High-temperature resistant. For one-time mounting only By using the mounting bracket, the distance between metal and data carrier is 12 mm	
TH-Q51T-HT	7030540	Retainer with M5 threaded bush to screw on Q51 data carriers. Locating pin, 4.5 mm, maintains data carrier in position. For direct mounting on metal. High-temperature resistant. For one-time mounting only With the mounting bracket, the distance between metal and data carrier is 12 mm	

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