

- 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.

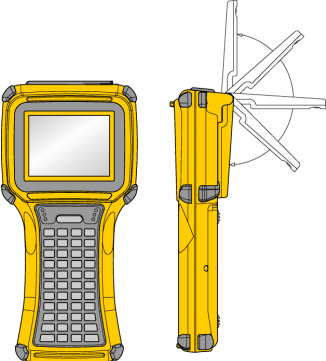

The read/write distances of data carriers suitable for mounting in/on metal were determined in/on metal.

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!

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
Housing length	51 mm mm
Housing width	51 mm mm
Housing height	6.5 mm mm
Housing material	plastic
Material active area	Plastic, Black, PPS
Protection class	IP68
Packaged quantity	1
Special features	High- temperature, for use in autoclaves

Compatible handhelds

	<p>PD-IDENT (1542331), PD-IDENT-WLAN (1542340) Handheld for mobile reading and writing to data carriers.</p>	
	<p>PD-IDENT-HF-RBTW (7030499), PD-IDENT-HF-RWBTW (7030534), PD-IDENT-HF-S2D-RBTW(7030539), PD-IDENT-HF-S2D-RWBTW (7030560) Handheld for mobile reading and writing to data carriers.</p>	

Accessories

Type code	Ident no.	Description	Dimension drawing
TH-Q51S-HT	7030541	Retainer with spring cotter for Q51 data carrier. The use of the 4.5 mm lock pin ensures protection against twisting of the retainer or the data carrier For mounting on metal. Suitable for repeated use in high-temperature. Only suitable for a single assembly (engage the data carrier in the retainer). The use of the retainer results in a clearance of 12 mm between metal to data carrier.	
TH-Q51T-HT	7030540	Retainer with M5 threaded bush to screw on Q51 data carriers. The use of the 4.5 mm lock pin ensures protection against twisting of the retainer or the data carrier For mounting on metal. Suitable for repeated use in high-temperature. Only suitable for a single assembly (engage the data carrier in the retainer). The use of the retainer results in a clearance of 12 mm between metal to data carrier.	