



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 designation	TW-R30-K9
Ident-No.	7030565
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Ident. no.	7030565
Data transfer	Inductive coupling
Operating frequency	13.56 MHz
Memory type	FRAM
Chip	Fujitsu MB89R112
Memory	9216 Byte
Memory	Read/Write
Freely usable memory	8192 Byte
Number of read operations	10 ¹²
Number of write operations	10 ¹²
Typical read time	0.5 ms/byte
Typical write time	0.5 ms/byte
Radio communication and protocol standards	ISO 15693

Minimum distance to metal	10 mm
Temperature of data carrier during read/write access	-40...+85 °C
Temperature of data carrier outside detection range	-40...+90 °C

Design	Hard tag, R30
Diameter	30 mm +/- 0.5 mm
Internal diameter	5.2 mm +/- 0.3 mm
Housing height	3 mm +/- 0.5 mm
Housing material	Plastic, PA6
Active area material	Plastic, PA6, black
Protection class	IP69K

Packaging unit	1
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Operating manual**Intended use**

This tag corresponds to the requirements for simple apparatus according to EN 60079-14, 5.12.2 and may, under certain conditions, be used in the Ex area. The requirements of EN 60079-14 must be observed in this case.