



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-BV10X1.5-19-K2
Ident-No.	6901382
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Ident. no.	6901382
Data transfer	Inductive coupling
Operating frequency	13.56 MHz
Memory type	FRAM
Chip	Fujitsu MB89R118
Memory	2048 Byte
Memory	Read/Write
Freely usable memory	2000 Byte
Number of read operations	unlimited
Number of write operations	10 ¹⁰
Typical read time	0.5 ms/byte
Typical write time	0.5 ms/byte
Radio communication and protocol standards	ISO 15693
Ambient temperature	-25...+85 °C
Storage temperature	-45...+85 °C
Design	Hard tag with thread, BV10 × 1.5
Diameter	10 mm
Housing material	Stainless steel, 1.4435 (316L)
Active area material	Plastic, PA6.6, yellow
Tightening torque	≤ 2 Nm
Vibration resistance (EN 60068-2-6)	10 g; 10...2000 Hz; 3 axis; 2.5 hrs.
Continuous shock resistance (EN 60068-2-29)	40 g; 18 ms; 6 axis; 2000x
Protection class	IP67 / IP69K
Packaging unit	1
Remark to product	Threaded data carrier, can be screwed onto metal