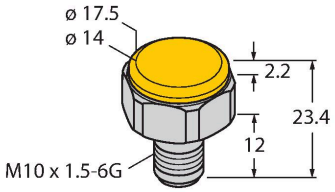
TW-BV10X1.5-19-K2
HF Tag



Technical data

Type	TW-BV10X1.5-19-K2
ID	6901382
Remark to product	Threaded tag, can be screwed onto metal
Data transfer	Inductive coupling
Technology	HF RFID
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 NFC Typ 5
Temperature during read/write access	-25…+85 °C
Temperature outside detection range	-45…+85 °C
Design	Hard tag with thread, BV10x1.5
Diameter	10 mm
Housing material	Stainless steel, 1.4435 (AISI 316L)
Active area material	Plastic, PA6.6, yellow
Tightening torque	≤ 2 Nm
Vibration resistance (EN 60068-2-6)	10 g; 10…2000 Hz; 3 axes; 2.5 h
Continuous shock resistance (EN 60068-2-29)	40 g, 18 ms, 6 axes, 2000 ×
Protection class	IP67

Features

- M10 bolt tag with yellow cap
- FRAM memory 2 kB
- Minimum 300 mounting cycles at 2 Nm

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!

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Technical data

	IP69K
Packaging unit	1

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