

- 3 different mounting options in/on metal, incl. accessories
- FRAM memory 2 kbyte

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.

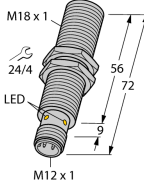
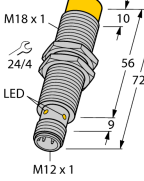
The read/write distances of data carriers suitable for mounting in/on metal were determined in/on metal.

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-R30-M-K2
Ident no.	7030206
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 ⁶
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	0 mm
Ambient temperature	-25...+85 °C
Storage temperature	-45...+85 °C 140 °C, 1x100 h
Design	R30
Housing material	Plastic, PET
Material active face	Plastic, Black, PET
Protection class	IP68
Packaged quantity	1
Special features	for mounting in/on metal

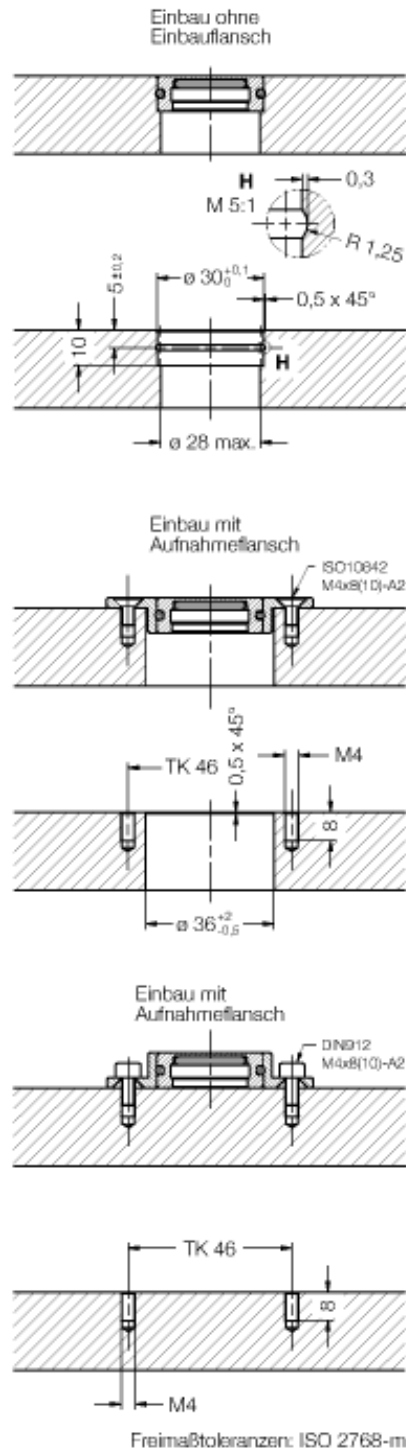
Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads
	Ident - no.	Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	TB-M18-H1147 7030001	7	10	18	9	54
	TB-EM18WD-H1147 7030224	7	10	18	9	54
	TN-M18-H1147 7030002	6	13	10	5	54
	TN-EM18WD-H1147 7030223	6	13	10	5	54

Compatible handhelds

	PDA-IDENT 1542344 The handheld can be used with two different antennas. Internal antenna, PDA-IDENT-IA, 1542345 External antenna, PDA-IDENT-EA, 1542346
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Mounting instructions



These data carriers can be mounted in 3 different ways:

1. Encapsulation or gluing of the data carrier directly into the metal
2. Mounting of the data carrier with mounting rings in metal (fixing with 2 screws)
3. Mounting of the data carrier with a reversed data carrier on metal (fixing with 2 screws)

Accessories

Type code	Ident no.	Description	Dimension drawing
MF-R30	6901150	The flange facilitates mounting of the data carrier TW-R30-M-B128 (-K2) on or in the metal.	