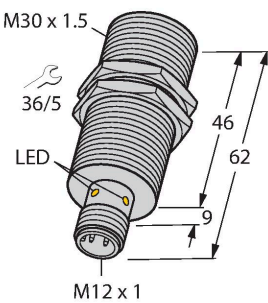


TB-EM30WD-H1147
HF Read/Write Device



Technical data

Type	TB-EM30WD-H1147
ID	7030221
Remark to product	Wash-Down (IP69K)
Approvals	CE FCC UL IC FDA

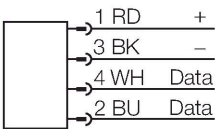
Electrical data	
Operating voltage	10...30 VDC
DC rated operational current	≤ 80 mA
inrush current	700 mA For: 1 ms
Data transfer	Inductive coupling
Technology	HF RFID
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693 NFC Typ 5
Read/Write distance max.	45 mm
Output function	4-wire, Read/Write

Mechanical data	
Mounting conditions	Flush
Ambient temperature	-25...+70 °C
Design	Threaded barrel, M30 × 1.5
Dimensions	62 mm
Housing diameter	Ø 30 mm
Housing material	Stainless steel, 1.4404 (AISI 316L)
Active area material	Plastic, LCP
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68

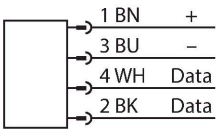
Features

- M30 × 1.5 threaded tube
- Stainless steel 1.4404
- Front cap made of liquid crystal polymer
- High protection class IP69K for harsh environments
- Special double-lip seal
- Protection against all common acidic and alkaline cleaning agents
- Suitable for applications in the food industry
- Laser-engraved label, permanently legible

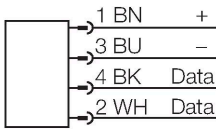
.../S2503 Connectors



.../S2500 Connectors



.../S2501 Connectors



Functional principle

Technical data

	IP69K
Electrical connection	M12 × 1
MTTF	391 years acc. to SN 29500 (Ed. 99) 20 °C
Power-on indication	LED, Green
Packaging unit	1

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 device and tag used.

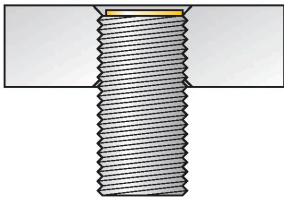
The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials.

The read/write distances of the tags for mounting in metal TW-R**-M(MF) were determined in 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).

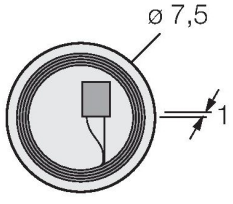
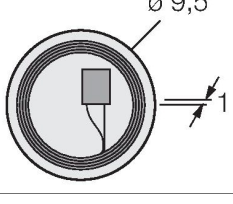
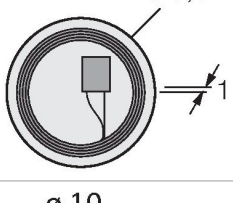
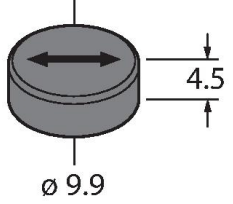
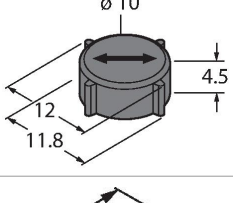
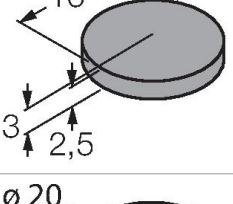
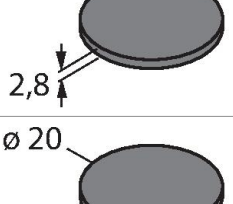
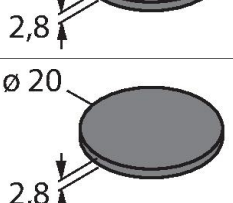
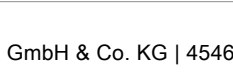
Testing of the application under real operating conditions is therefore essential, especially with on-the-fly reading and writing!

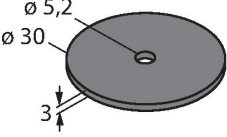
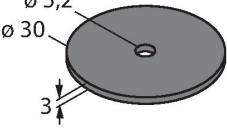
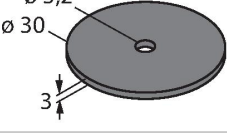
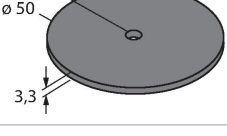
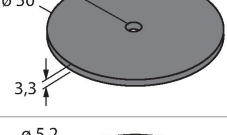
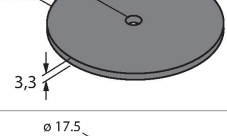
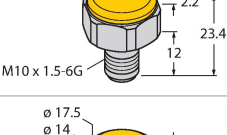
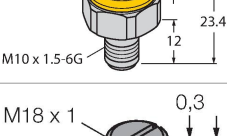
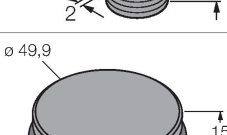
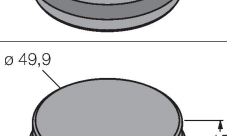
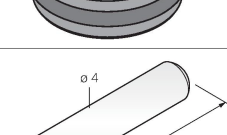
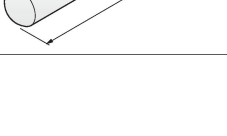
Mounting instructions/Description

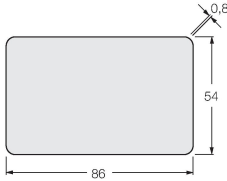
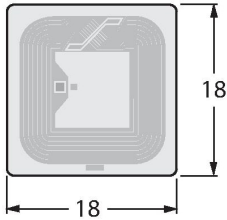
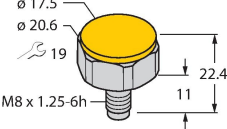


Diameter active area B	Ø 30 mm
Width active area B	30 mm

flush mounting

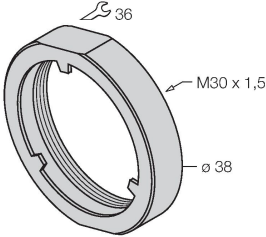
Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads
	Ident - no.	Recommended (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	TW-R7.5-B128 7030231	8	18	20	10	90
	TW-R9.5-B128 7030252	9	20	22	11	90
	TW-R9.5-K2 7030558	9	20	22	11	90
	TW-R10-M-B146 7030545	7	15	18	9	90
	TW-R12-M-B146 7030500	7	17	30	15	90
	TW-R16-B128 6900501	12	23	20	10	90
	TW-R20-B128 6900502	15	27	20	10	90
	TW-R20-B320 100005244	15	27	20	10	90
	TW-R20-K2 6900505	15	22	20	10	90

	TW-R30-B128 6900503	13	30	32	16	90
	TW-R30-B320 100005245	13	30	32	16	90
	TW-R30-K2 6900506	15	27	32	16	90
	TW-R50-B128 6900504	20	43	46	23	90
	TW-R50-B320 100005246	20	43	46	23	90
	TW-R50-K2 6900507	15	33	36	18	90
	TW-B510X1.5-19-K2 6901380	6	15	21	10	90
	TW-BD10X1.5-19-K2 6901381	10	20	22	11	90
	TW-SPP18X1-B128 6901062	10	17	26	13	90
	TW-R50-M-B128 7030209	15	27	22	11	90
	TW-R50-M-K2 7030229	10	21	26	13	90
	TW-R4-22-B128 7030237	5	16	22	11	90

	TW-L86-54-C-B128 6900479	20	45	80	40	90
	TW-L18-18-F-B128 7030634	16	29	16	8	90
	TW-B58x1.25-19-K2 7030638	6	15	21	10	90

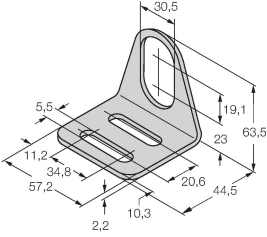
Accessories

PN-M306905308



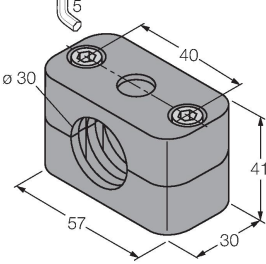
Protective nut for M30 x 1 threaded barrel devices; material: Stainless steel A2 1.4305 (AISI 303)

MW-306945005



Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-306901319



Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene