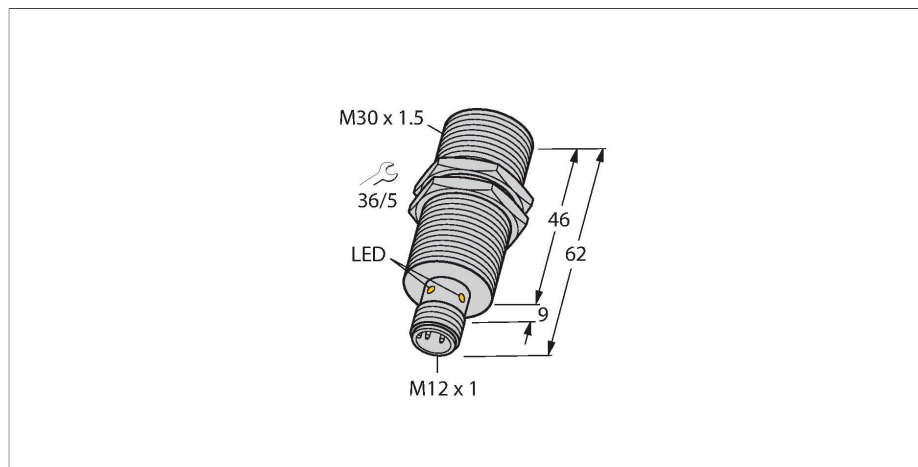


TB-M30-H1147

HF Read/Write Device



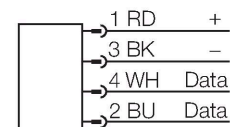
Technical data

Type	TB-M30-H1147
ID	7030003
Approvals	CE FCC UL IC MIC
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	Metal, CuZn, Chrome-plated
Active area material	Plastic, PA12-GF30
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	M12 × 1

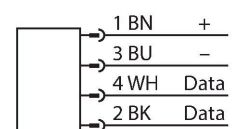
Features

- Threaded barrel, M30 x 1.5
- Chrome-plated brass

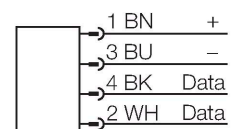
.../S2503 Connectors



.../S2500 Connectors



.../S2501 Connectors



Functional principle

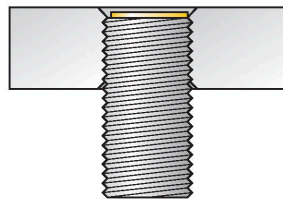
The HF read/write devices operating at a frequency of 13.56 MHz form a transmission zone, the size of which (0...500 mm) varies depending on the combination of read/write device and tag used. The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials.

Technical data

The read/write distances of the tags for mounting in metal TW-R**-(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!

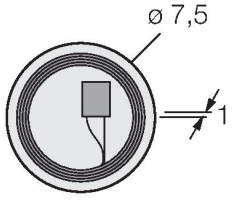
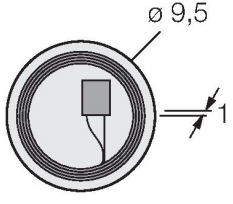
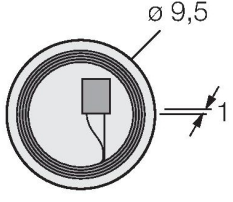
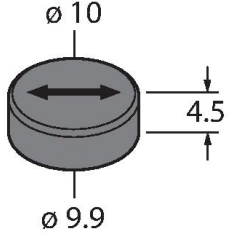
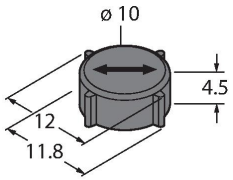
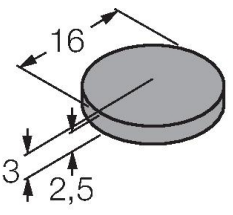
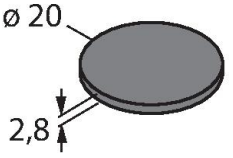
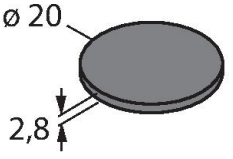
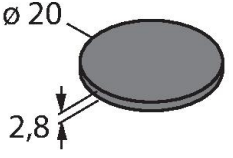
MTTF	391 years acc. to SN 29500 (Ed. 99) 20 °C
Power-on indication	LED, Green
Packaging unit	1

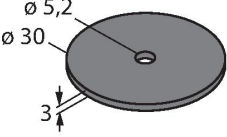
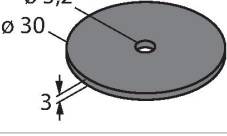
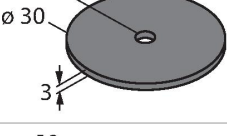
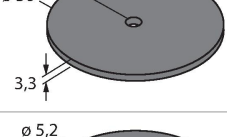
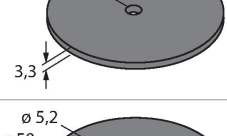
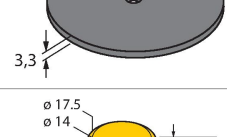
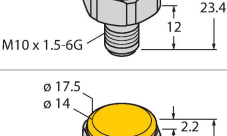
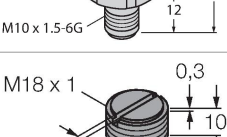
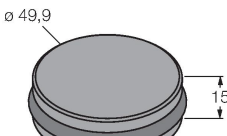
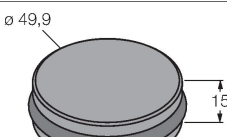
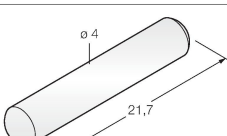

Mounting instructions/Description



Diameter active area B Ø 30 mm

flush mounting

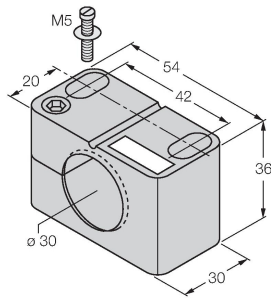
Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Ident - no.	Recommended (mm)	max. [mm]	length max. [mm]	
	TW-R7.5-B128 7030231	8	18	20	10	90
	TW-R9.5-B128 7030252	9	20	22	11	90
	TW-R9.5-K2 7030558	9	20	22	11	90
	TW-R10-M-B146 7030545	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-BS8x1.25-19-K2 7030638	6	15	21	10	90

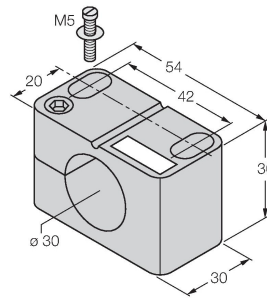
Accessories

BST-30B 6947216



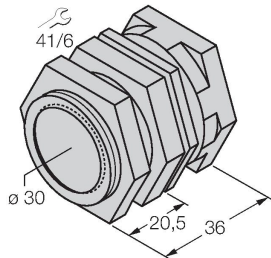
Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

BST-30N 6947217



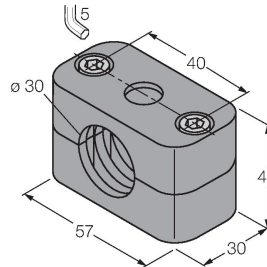
Mounting clamp for threaded barrel sensors, without dead-stop; material: PA6

QM-30 6945103



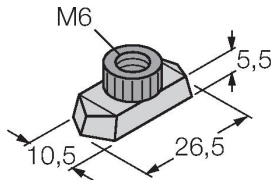
Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

BSS-30 6901319



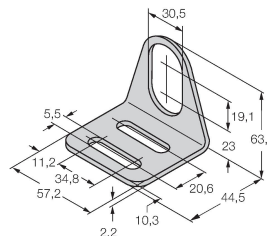
Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

BSS-TSM 2 pcs 6901323



DIN rail nut for BSS mounting clamps, for mounting on DIN rails

MW-30 6945005



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