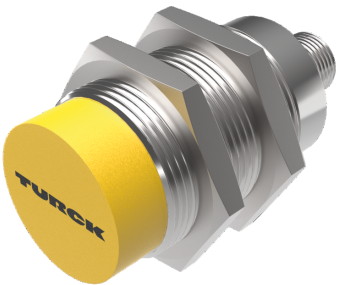
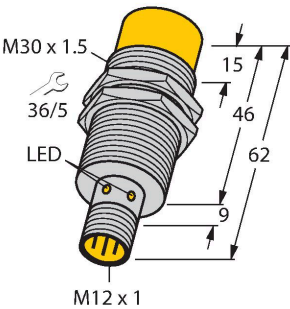


TN-M30-H1147

HF Read/Write Head



Technical data

Type	TN-M30-H1147
ID	7030004
Approvals	CE UKCA UL
Radio approvals	EU/RED: Europe UK SI 2017/1206: United Kingdom FCC: USA IC: Canada MIC: Japan RCM: Australia/New Zealand

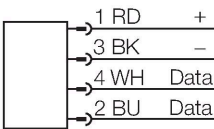
Electrical data	
Operating voltage	10...30 VDC
DC rated operational current	≤ 70 mA
inrush current	700 mA For: 1 ms
Data transfer	Inductive coupling
Technology	HF RFID
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693 NFC Typ 5
Read/Write distance max.	77 mm
Output function	4-wire, Read/Write

Mechanical data	
Mounting conditions	Non-flush
Ambient temperature	-25...+70 °C
Design	Threaded barrel, M30 x 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)

Features

- Threaded barrel, M30 x 1.5
- Chrome-plated brass
- Powered and operated only via connection to BL ident interface module
- M12 x 1 connector, connection only via BL ident extension cable

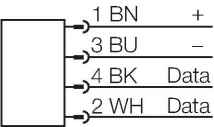
.../S2503 Connectors



.../S2500 Connectors



.../S2501 Connectors



Functional principle

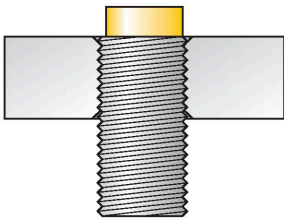
The HF read/write devices operating at a frequency of 13.56 MHz form a transmission zone, the size of which (0...500 mm) varies depending on the combination of read/write device and tag used.

Technical data

Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	M12 × 1
MTTF	391 years acc. to SN 29500 (Ed. 99) 20 °C
Power-on indication	LED, Green
Packaging unit	1

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!

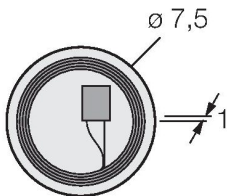
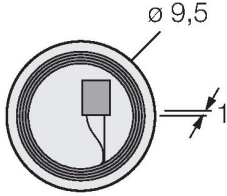
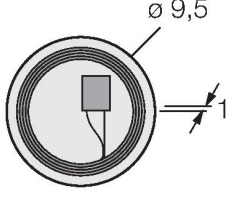
Mounting instructions/Description

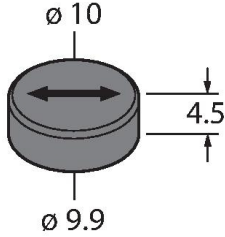
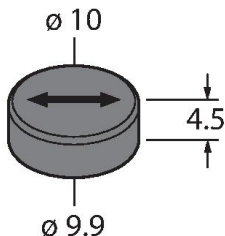
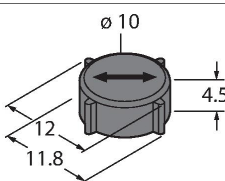
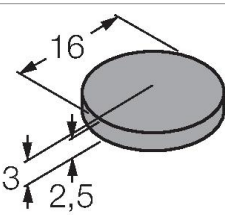
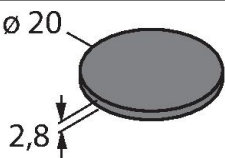
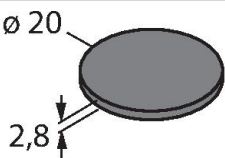
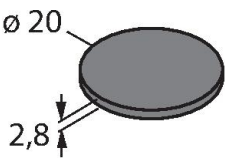
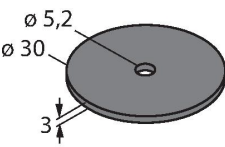
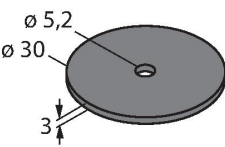
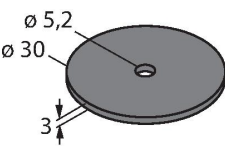


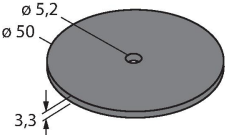
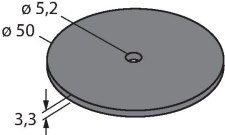
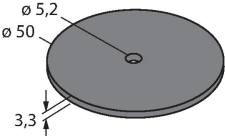
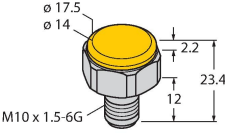
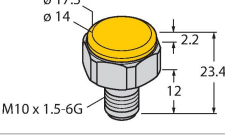
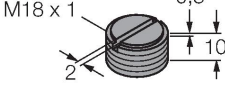
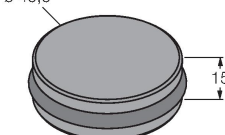
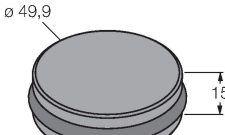
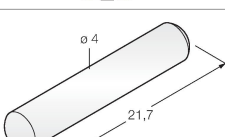
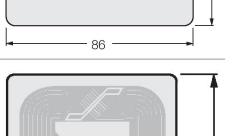
Diameter active area B Ø 30 mm

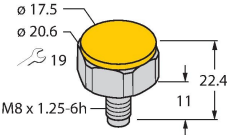
non-flush mounting

LED	Color	Status	Meaning
1	OFF	OFF	Operating voltage switched off
	GREEN	ON	Operating voltage switched on
	GREEN	FLASHING (1 Hz)	HF field switched off
	GREEN	FLASHING (2 Hz)	Tag in detection range

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]	width offset max. [mm]	
	TW-R7.5-B128 7030231	10	30	28	14	90
	TW-R9.5-B128 7030252	11	33	31	15	90
	TW-R9.5-K2 7030558	14	29	28	14	90

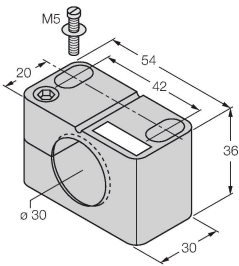
	TW-R10-M-B146 7030545	7	17	30	15	90
	TW-R10-M-K2 100002368	7	17	30	15	90
	TW-R12-M-B146 7030500	7	17	30	15	90
	TW-R16-B128 6900501	20	38	44	22	90
	TW-R20-B128 6900502	22	40	34	17	90
	TW-R20-B320 100005244	22	40	34	17	90
	TW-R20-K2 6900505	17	31	32	16	90
	TW-R30-B128 6900503	22	43	56	28	90
	TW-R30-B320 100005245	22	43	56	28	90
	TW-R30-K2 6900506	23	42	50	25	90

	TW-R50-B128 6900504	40	72	76	38	90
	TW-R50-B320 100005246	40	72	76	38	90
	TW-R50-K2 6900507	30	58	76	38	90
	TW-BS10X1.5-19-K2 6901380	8	20	22	11	90
	TW-BD10X1.5-19-B128 6901381	14	29	30	15	90
	TW-SPP18X1-B128 6901062	10	24	34	17	90
	TW-R50-M-B128 7030209	20	36	34	17	90
	TW-R50-M-K2 7030229	15	30	32	16	90
	TW-R4-22-B128 7030237	10	28	38	18	90
	TW-L86-54-C-B128 6900479	30	77	92	46	90
	TW-L18-18-F-B128 7030634	22	41	41	20	90

	TW-B58x1.25-19-K2 7030638	8	20	22	11	90
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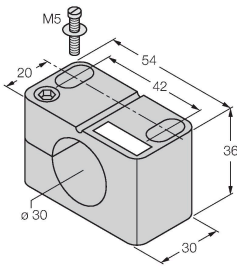
Accessories

BST-30B 6947216



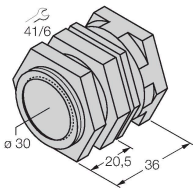
Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

BST-30N 6947217



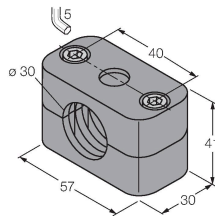
Mounting clamp for threaded barrel sensors, without dead-stop; material: PA6

QM-30 6945103



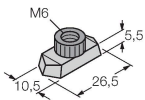
Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

BSS-30 6901319



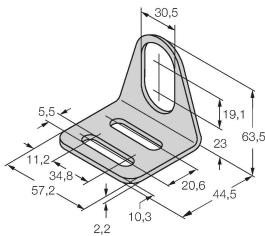
Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

BSS-TSM 2 pcs 6901323



DIN rail nut for BSS and BSM mounting clips, for mounting on DIN rails

MW-30 6945005



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