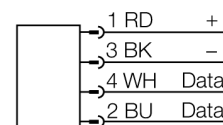
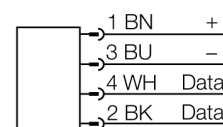


- Threaded barrel, M30 x 1
- Stainless steel 1.4404
- Front cap made of liquid crystal polymer Vectra C130
- High protection class IP69K, for harsh environments
- Special double-lip seal
- Protection against all common acid and alkaline cleaning agents
- For the food industry
- Laser engraved label, permanently legible
- Every read/write head can communicate with a number of different TURCK data carriers.
- Powered and operated only via BL ident interface module
- Male M12 x 1, only for use with BL ident extension cable

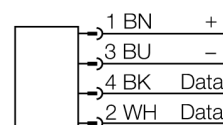
Connectors .../S2503



Connectors .../S2500



Connectors .../S2501



Type code	TB-EM30WD-H1147
Ident no.	7030221
Mounting condition	flush
Ambient temperature	-25...+70 °C
Operating voltage	10...30VDC
DC rated operational current	≤ 80 mA
Data transfer	inductive coupling
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/write distance max.	45 mm
Output function	4-wire, read/write
Design	threaded barrel, M30 x 1.5
Dimensions	62
Housing diameter	30 mm
Housing material	Stainless steel, V2A (1.4301)
Material active face	Plastic, LCP
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 / IP69K
MTTF	391 years acc. to SN 29500 (Ed. 99) 20°C
Operating voltage	LED green

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.

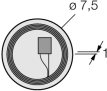
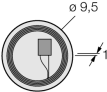


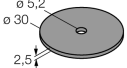
The read/write distances mentioned here only represent standard values measured under laboratory conditions.

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

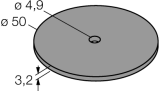
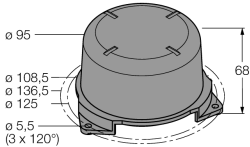
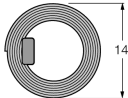
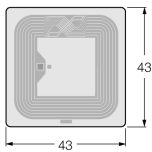
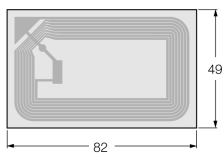
Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal)

Testing of the application under real operating conditions is therefore essential, especially with read/write on-the-fly!

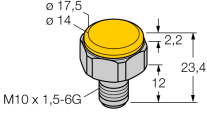
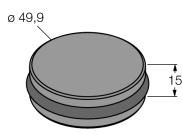
Data carrier

Dimensions	Type designation Ident - no.	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Recommend-ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	TW-R7.5-B128 7030231	8	18	20	10	90
	TW-R9.5-B128 7030252	9	20	22	11	90
	TW-R16-B128 6900501	12	23	20	10	90
	TW-R20-B128 6900502	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-K2 6900506	15	27	32	16	90

Data carrier

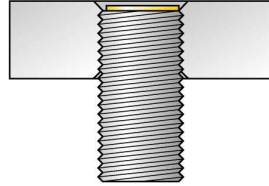
Dimensions	Type designation Ident - no.	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Recommend-ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	TW-R50-B128 6900504	20	43	46	23	90
	TW-R50-K2 6900507	15	33	36	18	90
	TW-R50-90-HT-B128 1542326		13	46	23	90
	TW-I14-B128 6900526	12	23	20	10	90
	TW-L49-46-F-B128 7030390	21	35	37	18	90
	TW-L80-50-P-B128 7030389	17	36	64	32	90

Data carrier

Dimensions	Type designation Ident - no.	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	TW-BS10X1.5-19-K2 6901380	4	12	17	8	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

Mounting instructions

Diameter of the active area B	Ø 30
Width of the active face B	30



flush mounting

Accessories

Type code	Ident no.	Description	Dimension drawing
PN-M30	6905308	Protective nut for M30 x 1 threaded barrel devices; material: Stainless steel A2 1.4305 (AISI 303)	
MW-30	6945005	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-30	6901319	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	