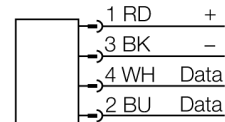
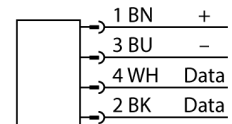


- Threaded barrel, M18 x 1
- Chrome-plated brass
- Powered and operated solely via BLident interface module
- M12 x 1 male, connection only via BLident extension cable

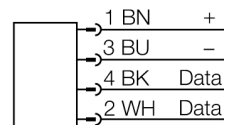
.../S2503 Connectors



Connector .../S2500



Connector .../S2501



<b>Type designation</b>	TB-M18-H1147
Ident-No.	7030001
<b>Electrical data</b>	&#x0020;
Operating voltage	10...30 VDC
DC rated operational current	≤ 80 mA
inrush current	700 mA For: 1 ms
Data transfer	Inductive coupling
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/Write distance max.	30 mm
Output function	4-wire, Read/Write
Interface	Connection only via Turck system components
<b>Mechanical data</b>	&#x0020;
Mounting conditions	Flush
Ambient temperature	-25...+70 °C
Design	Threaded barrel, M18 x 1
Dimensions	72 mm
Housing diameter	18 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	Connector, M12 x 1
MTTF	391 years acc. to SN 29500 (Ed. 99) 20 °C
Power-on indication	LED, Green
<b>Packaging unit</b>	1

**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.

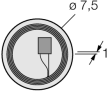


The read/write distances mentioned here only represent standard values measured under laboratory conditions.

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

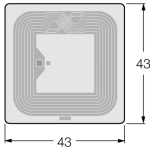
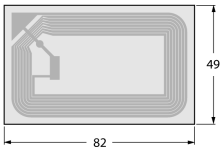
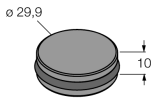
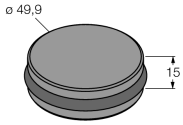
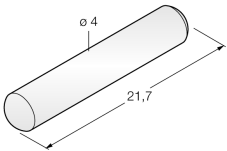
Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal)

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

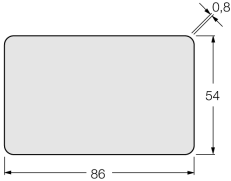
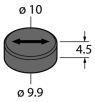
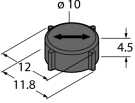
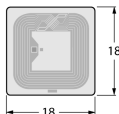
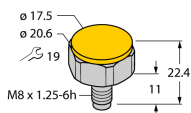
Data carrier

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]	
	<b>TW-R7.5-B128</b> 7030231	8	14	16	8	54
	<b>TW-R9.5-B128</b> 7030252 <b>TW-R9.5-K2</b> 7030558	9 5	15 13	18 12	9 6	54 54
	<b>TW-R16-B128</b> 6900501	10	17	14	7	54
	<b>TW-R20-B128</b> 6900502 <b>TW-R20-K2</b> 6900505	8 5	15 12	12 16	6 8	54 54
	<b>TW-R30-B128</b> 6900503 <b>TW-R30-K2</b> 6900506	8 6	17 14	22 18	11 9	54 54

Data carrier

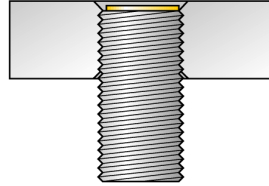
Dimensions	Type designation  Ident - no.	Read-write distance		Transfer zone		Minimum distance between two read-write heads  [mm]
		Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	<b>TW-L49-46-F-B128</b> 7030390	12	25	29	14	54
	<b>TW-L80-50-P-B128</b> 7030389	12	20	54	27	54
	<b>TW-R30-M-B128</b> 7030210  <b>TW-R30-M-K2</b> 7030206	8 7	12 10	16 18	8 9	54 54
	<b>TW-R50-M-B128</b> 7030209  <b>TW-R50-M-K2</b> 7030229	8 7	18 15	22 24	11 12	54 54
	<b>TW-R4-22-B128</b> 7030237	3	9	12	6	54

Data carrier

Dimensions	Type designation  Ident - no.	Read-write distance		Transfer zone		Minimum distance between two read-write heads  [mm]
		Recommended (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	<b>TW-L86-54-C-B128</b> 6900479	10	21	70	35	54
	<b>TW-R10-M-B146</b> 7030545	5	7	7	3	54
	<b>TW-R12-M-B146</b> 7030500	5	7	7	3	54
	<b>TW-L18-18-F-B128</b> 7030634	8	16	16	8	54
	<b>TW-BS8x1.25-19-K2</b> 7030638	5	10	13	6	54

**Mounting instructions**

Diameter active area B	Ø 18
Width active area B	18

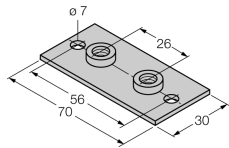
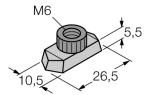


flush mounting

**Accessories**

Type code	Ident-No.	Description	
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	
SKN/M18	69663	PTFE-coated caps; for use in welding systems and grinding machinery; protection against intense sparking	
BSN 18	69472	Fixing clamp; material: PA66-GF	
BST-18N	6947215	Fixing clamp for threaded barrel devices, without dead-stop; material: PA6	
QM-18	6945102	Quick-mount bracket with dead-stop; material: Chrome-plated brass Male thread M24 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick-mount brackets.	
BSS-18	6901320	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	

**Accessories**

Type code	Ident-No.	Description	
BSS-SPV2	6901316	Weld-on plate for BSS mounting bracket, long	
BSS-TSM 2 pcs	6901323	DIN rail nut for BSS mounting bracket	
MW-18	6945004	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	