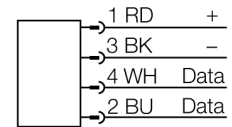


<b>Type designation</b>	TN-S32XL-H1147
Ident no.	7030008
<b>Electrical data</b>	&#x0020;
Data transfer	Inductive coupling
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/Write distance max.	180 mm
Output function	4-wire, Read/Write
Interface	Connection only via Turck system components
<b>Mechanical data</b>	&#x0020;
Mounting conditions	Non-flush
Ambient temperature	-25...+70 °C
Inside ring diameter D	100 mm
Design	S32XL
Dimensions	180x 137.5x 32mm
Housing material	Plastic, POM, Yellow
Active area material	POM, yellow
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	Connectors, M12 x 1
MTTF	248 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
<b>Packaging unit</b>	1

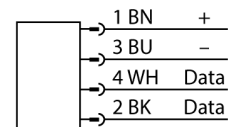
■ Rectangular, height 32 mm

■ Plastic, ABS

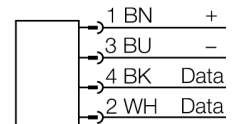
.../S2503 Connectors



.../S2500 Connectors



.../S2501 Connectors



### 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.


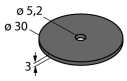
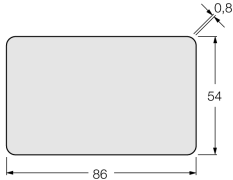
The read/write distances mentioned here only represent standard values measured under laboratory conditions.

The read/write distances of the data carriers for mounting in metal TW-R\*\*-(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-R16-B128</b> 6900501	20	67	125	62	420
	<b>TW-R20-B128</b> 6900502 <b>TW-R20-K2</b> 6900505	36 20	72 60	103 130	51 65	420 420
	<b>TW-R30-B128</b> 6900503 <b>TW-R30-K2</b> 6900506	30 30	80 82	120 132	60 66	420 420
	<b>TW-R50-B128</b> 6900504 <b>TW-R50-K2</b> 6900507	80 60	150 128	160 160	80 80	420 420
	<b>TW-L86-54-C-B128</b> 6900479	90	180	206	103	420

