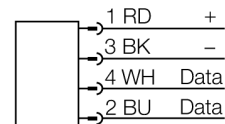
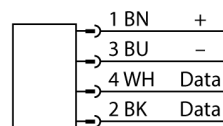


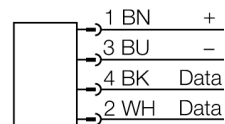
#### .../S2503 Connectors



#### Connector .../S2500



#### Connector .../S2501



#### 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!

<b>Type designation</b>	TNSLR-Q350-H1147
<b>Ident-No.</b>	7030454

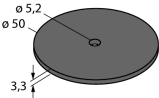
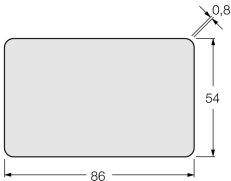
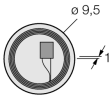
<b>Remark to product</b>	Very long ranges
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<b>Electrical data</b>	&#x0020;
Operating voltage	19.2...28.8 VDC
DC rated operational current	≤ 150 mA
inrush current	1200 mA For: 1 ms
Data transfer	Inductive coupling
Technology	HF (13.56 MHz)
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/Write distance max.	794 mm
Output function	4-wire, Read/Write

<b>Mechanical data</b>	&#x0020;
Mounting conditions	Non-flush
Ambient temperature	-25...+70 °C
Design	Rectangular, Q350
Dimensions	370x 350x 20mm
Housing material	Plastic, PBT-GF30-V0, Black
Active area material	Plastic, black
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	Connector, M12 × 1
MTTF	121 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Diagnostic display	Functional description of the orange range-restricted LED: If the read/write head is supplied with voltage, it briefly checks to see whether its resonance frequency is affected by surrounding metal. If this is the case, the resonant circuit off-tunes its frequency to reach again the (optimum) resonance frequency. However, this is only possible within a certain range. If too much metal is in the environment, the read/write head cannot re-tune or the surrounding metal takes too much energy from the field and due to the reduced range the communication between the read/write head and the tag (data carrier) is cut off (the orange range-restricted-LED lights up). If the LED is off, this does not mean conversely, that no reduction in range occurs. The lit LED is rather an indication of too much metal in the environment and a greatly reduced range (about 50% less).

<b>Packaging unit</b>	1
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Data carrier

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads
	Ident - no.	Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	<b>TW-R50-B128</b> 6900504	280	560	600	300	1110
	<b>TW-R50-K2</b> 6900507	210	400	480	240	1110
	<b>TW-L86-54-C-B128</b> 6900479	432	794	792	396	1110
	<b>TW-R9.5-K2</b> 7030558	35	130	350	175	1110