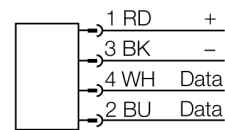
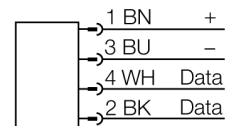


- Rectangular, 370x350 mm, height 20 mm
- Active face on top
- Plastic, PBT-GF30-VO
- Powered and operated only via BL ident interface module
- Male M12 x 1, only for use with BL ident extension cable

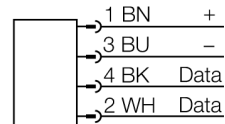
**Connectors .../S2503**



**Connectors .../S2500**



**Connectors .../S2501**



<b>Type code</b>	TNLR-Q350-H1147
Ident no.	7030220
<b>Mounting conditions</b>	non-flush
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	19.2...28.8VDC
DC rated operational current	≤ 250 mA
Data transfer	inductive coupling
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/write distance max.	662 mm
Output function	4-wire, read/write
<b>Construction</b>	rectangular, Q350
Dimensions	370x 350x 20mm
Housing material	plastic, PBT, black
Material active area	plastic, Black
<b>Connection</b>	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
IP Rating	IP67
MTTF	121 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED green
Diagnostic display	Functional description of yellow 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 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).

**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!

**BL**  
**ident**<sup>®</sup>

Customised read/write head  
TNLR-Q350-H1147



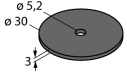
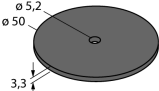
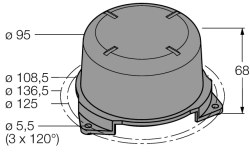
**TURCK**

Industrial  
Automation

---

Packaged quantity	1
Special features	hohe Reichweite

Data carrier

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
	Ident - no.	Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	<b>TW-R16-B128</b> 6900501	60	203	360	180	1110
		<b>TW-R20-B128</b> 6900502	100	215	350	175
<b>TW-R20-K2</b> 6900505		80	155	310	155	1110
	<b>TW-R30-B128</b> 6900503	80	218	350	175	1110
	<b>TW-R30-K2</b> 6900506	100	250	380	190	1110
	<b>TW-R50-B128</b> 6900504	200	462	530	265	1110
	<b>TW-R50-K2</b> 6900507	200	405	480	240	1110
	<b>TW-R50-90-HT-B128</b> 1542326	170	432	530	265	1110
	<b>TW-R50-90-HT-K2</b> 1542329	170	375	480	240	1110

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-I14-B128</b> 6900526	60	203	360	180	1110
	<b>TW-L49-46-F-B128</b> 7030390	170	353	389	194	1110
	<b>TW-L80-50-P-B128</b> 7030389	204	425	440	220	1110
	<b>TW-R4-22-B128</b> 7030237	50	197	328	164	1110
	<b>TW-L86-54-C-B128</b> 6900479	360	662	660	330	1110

**BL**  
**ident**<sup>®</sup>

Customised read/write head  
TNLR-Q350-H1147

**TURCK**

Industrial  
Automation