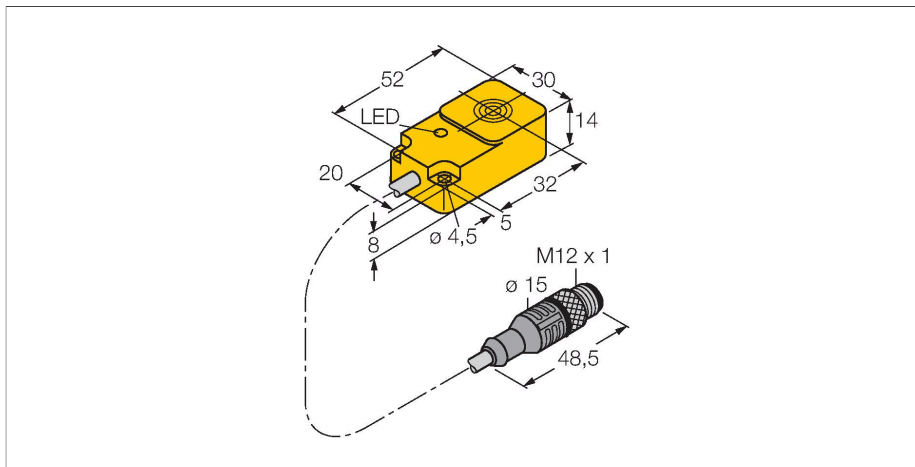


# TN-Q14-0.15-RS4.47T

## HF Read/Write Head



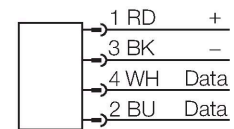
### Technical data

Type	TN-Q14-0.15-RS4.47T
ID	7030235
Remark to product	Flat design
Approvals	CE UKCA UL
Radio approvals	EU/RED: Europe UK SI 2017/1206: United Kingdom FCC: USA IC: Canada RCM: Australia/New Zealand MIC: Japan
<b>Electrical data</b>	
Operating voltage	10...30 VDC
DC rated operational current	≤ 35 mA
inrush current	700 mA For: 1 ms
Data transfer	Inductive coupling
Technology	HF RFID
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693 NFC Typ 5
Read/Write distance max.	72 mm
Output function	4-wire, Read/Write
<b>Mechanical data</b>	
Mounting conditions	Non-flush, partially embeddable
Ambient temperature	-25...+70 °C
Design	Rectangular, Q14
Dimensions	56 x 30 x 14 mm
Housing material	Plastic, PBT-GF30-V0, Yellow
Active area material	Plastic, PBT-GF30-V0, yellow
Vibration resistance	55 Hz (1 mm)

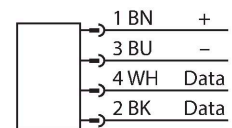
### Features

- Rectangular, height 14 mm
- Active face on top
- Plastic, PBT-GF30-V0
- Powered and operated only via connection to BL ident interface module
- M12 × 1 connector, connection only via BL ident extension cable

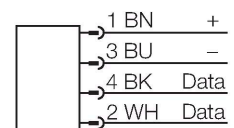
### .../S2503 Connectors



### .../S2500 Connectors



### .../S2501 Connectors



### Functional principle

The HF read/write devices operating at a frequency of 13.56 MHz form a transmission zone, the size of which (0...500 mm) varies

## Technical data

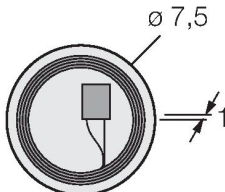
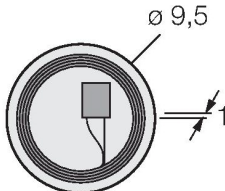
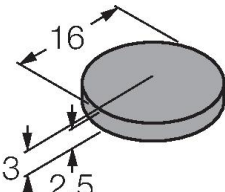
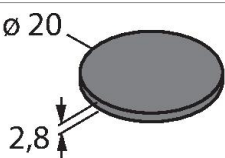
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	Cable with connector, M12 × 1
Cable quality	Gray
MTTF	391 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Cable jacket	TPUGray
Packaging unit	1

depending on the combination of read/write device and tag used.  
 The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials.  
 The read/write distances of the tags 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 on-the-fly reading and writing!

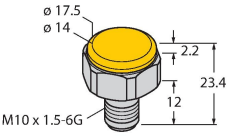
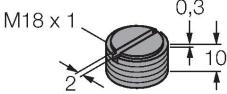
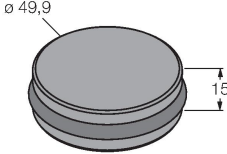
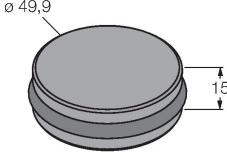
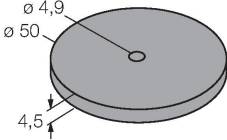
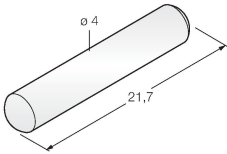
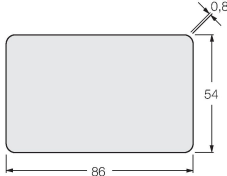
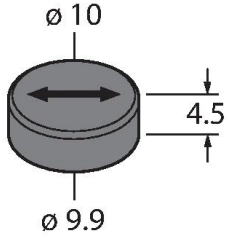
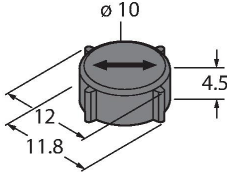
## Mounting instructions/Description

Width active area 30 mm  
 B

LED	Color	Status	Meaning
1	AUS	AUS	Betriebsspannung ausgeschaltet
	GRÜN	AN	Betriebsspannung eingeschaltet
	GRÜN	BLINKEND (1 Hz)	HF-Feld ausgeschaltet
	GRÜN	BLINKEND (2 Hz)	Datenträger im Erfassungsbereich

Dimensions	Type designation	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-R7.5-B128</b> 7030231	10	30	28	14	90
	<b>TW-R9.5-B128</b> 7030252	11	33	31	15	90
	<b>TW-R16-B128</b> 6900501	20	38	44	22	90
	<b>TW-R20-B128</b> 6900502	22	40	34	17	90

	<b>TW-R30-B128</b> 6900503	22	43	56	28	90
	<b>TW-R50-B128</b> 6900504	40	72	76	38	90
	<b>TW-R20-K2</b> 6900505	17	31	32	16	90
	<b>TW-R30-K2</b> 6900506	23	42	50	25	90
	<b>TW-R50-K2</b> 6900507	30	58	76	38	90
	<b>TW-R50-90-HT-B128</b> 1542326	10	42	76	38	90
	<b>TW-R50-90-HT-K2</b> 1542329		28	76	38	90
	<b>TW-I14-B128</b> 6900526	20	38	44	22	90
	<b>TW-L49-46-F-B128</b> 7030390	25	54	57	28	90
	<b>TW-L80-50-P-B128</b> 7030389	25	55	71	35	90
	<b>TW-B510X1.5-19-B128</b> 6901380	5	15	21	10	90

	<b>TW-BD10X1.5-19-B128</b> 6901381	14	29	30	15	90
	<b>TW-SPP18X1-B128</b> 6901062	10	24	34	17	90
	<b>TW-R50-M-B128</b> 7030209	20	36	34	17	90
	<b>TW-R50-M-K2</b> 7030229	15	30	32	16	90
	<b>TW-R50-MF-K2</b> 7030232	10	23	38	19	90
	<b>TW-R4-22-B128</b> 7030237	10	20	32	16	90
	<b>TW-L86-54-C-B128</b> 6900479	20	65	98	49	90
	<b>TW-R10-M-B146</b> 7030545	5	14	24	8	90
	<b>TW-R12-M-B146</b> 7030500	5	14	24	8	90