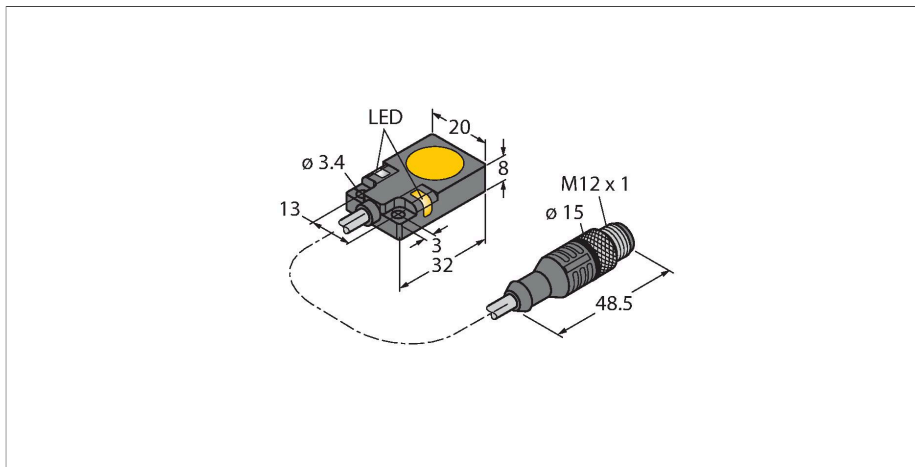


TB-Q08-0.15-RS4.47T

HF Read/Write Head



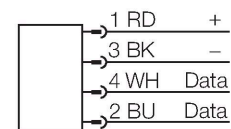
Technical data

Type	TB-Q08-0.15-RS4.47T
ID	7030553
Remark to product	ultraflat 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
Electrical data	
Operating voltage	10...30 VDC
DC rated operational current	≤ 30 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.	30 mm
Output function	4-wire, Read/Write
Mechanical data	
Mounting conditions	Flush, flush mountable
Ambient temperature	-25...+70 °C
Design	Rectangular, Q08
Dimensions	32 x 20 x 8 mm
Housing material	Metal, GD-Zn
Active area material	Plastic, PA12-GF30, yellow
Vibration resistance	55 Hz (1 mm)

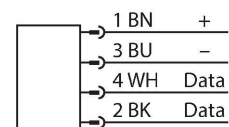
Features

- Rectangular, height 8 mm
- Active face on top
- Metal, GD-Zn, nickel-plated brass
- Powered and operated solely via BLident interface module
- M12 × 1 male, connection only via BL ident extension cable

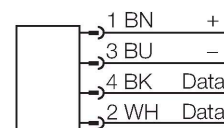
.../S2503 Connectors



.../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

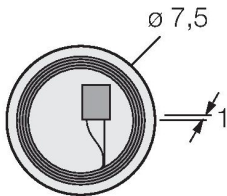
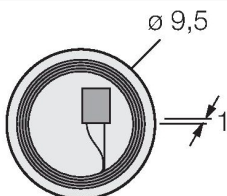
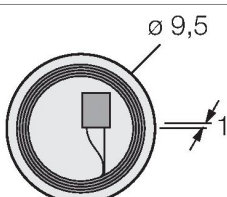
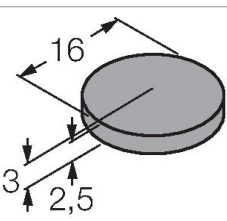
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	Cable with connector, M12 × 1
Cable quality	Gray, 0.15 m
MTTF	391 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Cable jacket	Gray
Packaging unit	1

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!

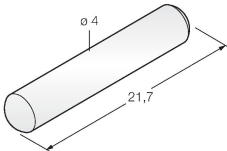
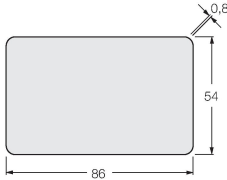
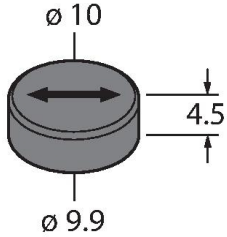
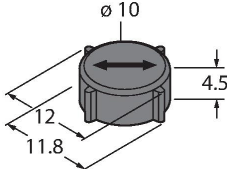
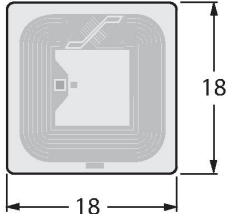
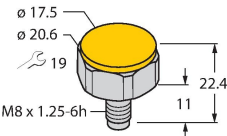
Mounting instructions/Description

Width active area 19 mm
 B

LED	Color	Status	Meaning
\\Graphics\Pic4\00185369_0.EPS			

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]	
	TW-R7.5-B128 7030231	8	14	16	8	54
	TW-R9.5-B128 7030252	9	15	18	9	54
	TW-R9.5-K2 7030558	5	12	13	6	54
	TW-R16-B128 6900501	10	17	14	7	54

<p>∅ 20 2,8</p>	<p>TW-R20-B128 6900502</p>	8	15	12	6	54
<p>∅ 20 2,8</p>	<p>TW-R20-B320 100005244</p>	8	15	12	6	54
<p>∅ 20 2,8</p>	<p>TW-R20-K2 6900505</p>	5	12	16	8	54
<p>∅ 5,2 ∅ 30 3</p>	<p>TW-R30-B128 6900503</p>	8	17	22	11	54
<p>∅ 5,2 ∅ 30 3</p>	<p>TW-R30-B320 100005245</p>	8	17	22	11	54
<p>∅ 5,2 ∅ 30 3</p>	<p>TW-R30-K2 6900506</p>	6	14	18	9	54
<p>∅ 17,5 ∅ 14 2,2 23,4 12 M10 x 1,5-6G</p>	<p>TW-BD10x1.5-19-K2 6901381</p>	6	14	16	8	54
<p>∅ 29,9 10</p>	<p>TW-R30-M-B128 7030210</p>	8	12	16	8	54
<p>∅ 49,9 15</p>	<p>TW-R50-M-B128 7030209</p>	8	18	22	11	54
<p>∅ 29,9 10</p>	<p>TW-R30-M-K2 7030206</p>	7	10	18	9	54
<p>∅ 49,9 15</p>	<p>TW-R50-M-K2 7030229</p>	7	15	24	12	54

	TW-R4-22-B128 7030237	3	9	12	6	54
	TW-L86-54-C-B128 6900479	10	21	70	35	54
	TW-R10-M-B146 7030545	5	7	10	3	54
	TW-R12-M-B146 7030500	5	7	10	3	54
	TW-L18-18-F-B128 7030634	7	13	14	7	54
	TW-BS8x1.25-19-K2 7030638	5	10	13	6	54