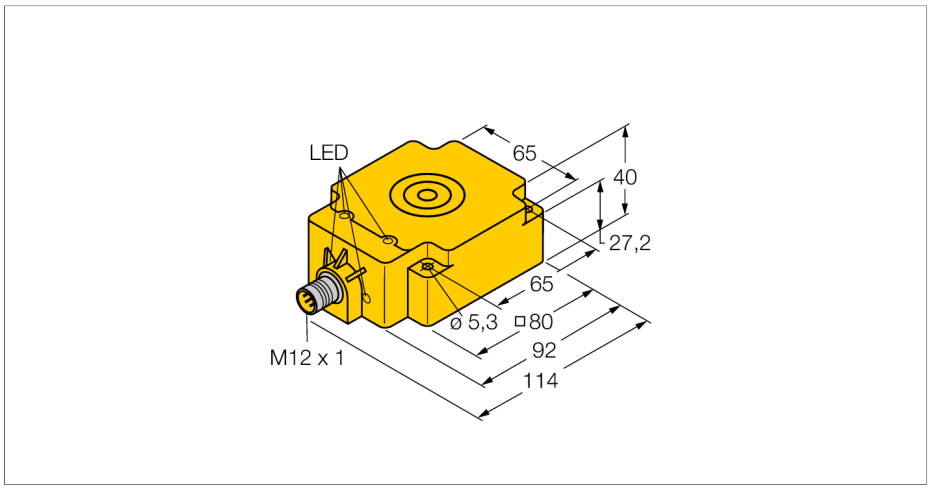
BL ident®

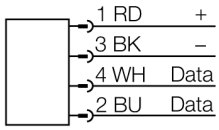
Read/write head
TN-Q80-H1147

TURCK
Industrial Automation

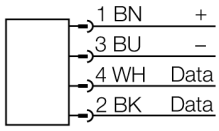


- **Rectangular, height 40 mm**
- **Active face on top**
- **Plastic, PBT-GF30-VO**
- **Every read/write head can communicate with a number of different TURCK data carriers.**
- **Powered and operated only via BL ident interface module**
- **Male M12 x 1, only for use with BL ident extension cable**

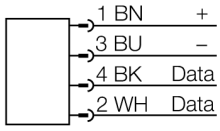
Connectors …/S2503



Connectors …/S2500



Connectors …/S2501



Type code	TN-Q80-H1147
Ident no.	7030007
Mounting condition	non-flush, flush mountable
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
DC rated operational current	≤ 80 mA
Data transfer	inductive coupling
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/write distance max.	146 mm
Output function	4-wire, read/write
Design	rectangular, Q80
Dimensions	92x 80x 40mm
Housing material	Plastic, PBT, yellow
Material active face	Plastic, PBT, yellow
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	248 years acc. to SN 29500 (Ed. 99) 40 °C
Operating voltage	LED green

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!

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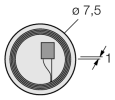
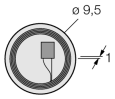
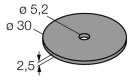
Data carrier

Dimensions	Type designation Ident - no.	Read-write distance Recommended (mm)	 max. [mm]	Transfer zone length max. [mm]	 width offset max. [mm]	Minimum distance between two read-write heads [mm]
	**TW-R7.5-B128** 7030231	10	34	62	31	240
	**TW-R9.5-B128** 7030252	11	37	68	34	240
	**TW-R16-B128** 6900501	20	52	60	30	240
	**TW-R20-B128** 6900502 **TW-R20-K2** 6900505	35 25	65 52	72 70	36 35	240 240
	**TW-R30-B128** 6900503 **TW-R30-K2** 6900506	35 35	72 67	80 80	40 40	240 240

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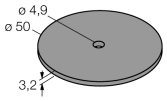
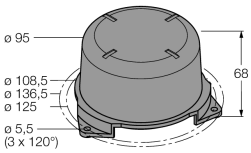
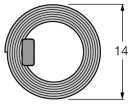
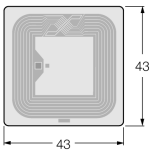
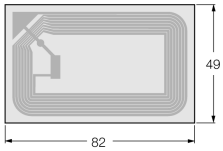
Data carrier

Dimensions	Type designation Ident - no.	Read-write distance Recommended (mm)	 max. [mm]	Transfer zone length max. [mm]	 width offset max. [mm]	Minimum distance between two read-write heads [mm]
	**TW-R50-B128** 6900504 **TW-R50-K2** 6900507	65 50	118 100	120 110	60 55	240 240
	**TW-R50-90-HT-B128** 1542326 **TW-R50-90-HT-K2** 1542329	35 20	88 70	120 110	55 55	240 240
	**TW-I14-B128** 6900526	20	52	60	30	240
	**TW-L49-46-F-B128** 7030390	51	97	98	49	240
	**TW-L80-50-P-B128** 7030389	55	108	115	57	240

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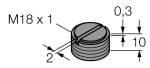
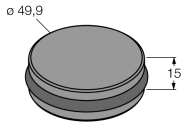
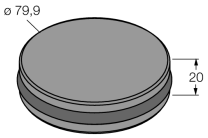
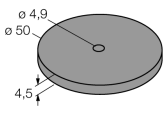
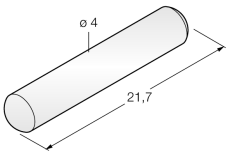
Data carrier

Dimensions	Type designation Ident - no.	Read-write distance Recommend-ed (mm)	 max. [mm]	Transfer zone length max. [mm]	 width offset max. [mm]	Minimum dis-tance between two read-write heads [mm]
	**TW-SPP18X1-B128** 6901062					240
	**TW-R50-M-B128** 7030209 **TW-R50-M-K2** 7030229	25 15	53 41	66 58	33 38	240 240
	**TW-R80-M-B128** 7030207 **TW-R80-M-K2** 7030205	40 20	76 55	76 64	38 32	240 240
	**TW-R50-MF-K2** 7030232	20	35	48	24	240
	**TW-R4-22-B128** 7030237	20	48	68	34	240

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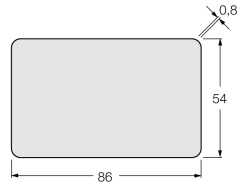
Data carrier

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads
	Ident - no.	Recommended (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	**TW-L86-54-C-B128** 6900479	70	146	158	78	240

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