

■ **EEPROM, memory 128 byte**

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 and free from any influences caused by materials.

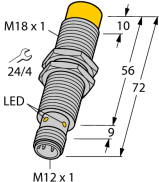
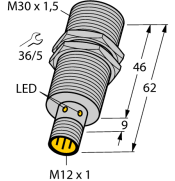
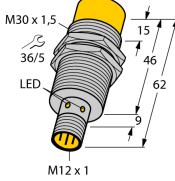
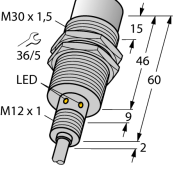
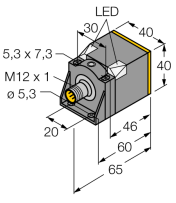
The read/write distances of data carriers suitable for mounting in/on metal were determined in/on metal.

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!

Type code	TW-R50-B128
Ident no.	6900504
Data transfer	inductive coupling
Operating frequency	13.56 MHz
Memory type	EEPROM
Chip	NXP I-Code SLI/SL2
Memory	128 byte
Memory	read/write
Freely usable memory	112 byte
Number of read operations	unlimited
Number of write operations	10 ⁵
Typical read time	2 ms/byte
Typical write time	3 ms/byte
Radio communication and protocol standards	ISO 15693
Minimum distance to metal	10 mm
Ambient temperature	-25...+85 °C
Storage temperature	-45...+85 °C 140 °C, 1x100 h
Design	R50
Diameter	50 mm
Housing material	Plastic, PA
Material active face	Plastic, Black, PA
Protection class	IP69K
Packaged quantity	1

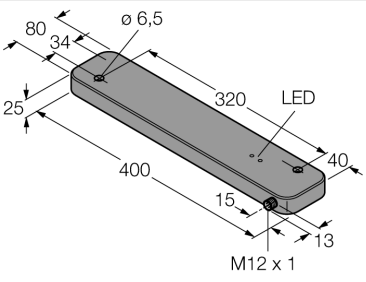
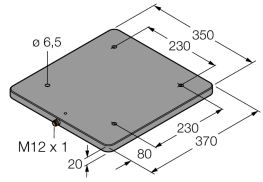
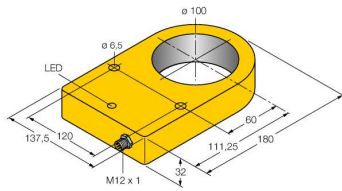
Read/write heads

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]	
	TN-M18-H1147 7030002	20	41	70	35	54
	TN-EM18WD-H1147 7030223	20	41	70	35	54
	TN-M18-H1147/S1126 7030213	20	41	70	35	54
	TN-EM18WD-H1147/S1126 7030227	20	41	70	35	54
	TB-M30-H1147 7030003	20	43	46	23	90
	TB-EM30WD-H1147 7030221	20	43	46	23	90
	TB-M30-H1147/S1126 7030214	20	43	46	23	90
	TB-EM30WD-H1147/S1126 7030225	20	43	46	23	90
	TN-M30-H1147 7030004	40	72	76	38	90
	TN-EM30WD-H1147 7030222	40	72	76	38	90
	TN-M30-H1147/S1126 7030215	40	72	76	38	90
	TN-EM30WD-H1147/S1126 7030226	40	72	76	38	90
	TN-M30-0.15-RS4.47T 7030444	40	72	76	38	90
	TN-CK40-H1147 7030006	45	85	96	48	120
	TN-CK40-H1147/S1126 7030216	45	85	96	48	120

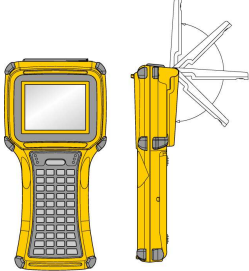

Read/write heads

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]	
	HT-IDENT-H1147 7030236	45	85	96	48	120
		HT-IDENT-H1187 7030238	45	85	96	48
	TN-Q14-0.15-RS4.47T 7030235	40	72	76	38	90
	Q14-R/W-OPEN-PCB/C37 7030445	40	72	76	38	90
	TN-Q80-H1147 7030007	65	118	120	60	240
	TN-Q80-H1147/S1126 7030217	65	118	120	60	240
	TNLR-Q80-H1147 7030230	80	165	168	84	240
	TNLR-Q80-H1147/S1126 7030219	80	165	168	84	240
	TNSLR-Q80-H1147 7030418	140	280	150	75	450
		TNLR-Q80L400-H1147 7030204Lengthwise	100	256	484	115
TNLR-Q80L400-H1147 7030204	150	256	230	242	240	
TNLR-Q80L400-H1147/S1126 7030324	150	256	230	242	240	
TNLR-Q80L400-H1147/S1126 7030324Lengthwise	100	256	484	115	240	

Read/write heads

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]	
	TNLR-Q80L400-H1147L 7030234	150	256	230	242	240
	TNLR-Q80L400-H1147L 7030234Lengthwise	100	256	484	115	240
	TNLR-Q80L400-H1147L/S1126 7030325	150	256	230	242	240
	TNLR-Q80L400-H1147L/S1126 7030325Lengthwise	100	256	484	242	240
	TNLR-Q350-H1147 7030220	200	462	530	265	1110
	TNLR-Q350-H1147/S1126 7030319	200	462	530	265	1110
	TN-S32XL-H1147 7030008	80	150	160	80	420

Compatible handhelds

	<p>PD-IDENT 1542331 Handheld for mobile reading and writing on data carriers.</p>
	<p>PDA-IDENT 1542344 The handheld can be used with two different antennas. Internal antenna, PDA-IDENT-IA, 1542345 External antenna, PDA-IDENT-EA, 1542346</p>