

■ **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.

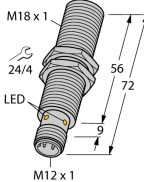
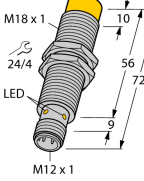
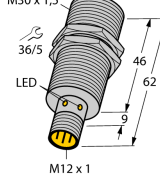
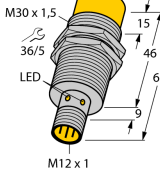
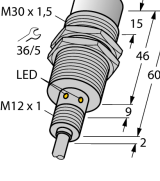
The read/write distances of data carriers suitable for mounting in/on metal were determined in/on metal.

Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal)

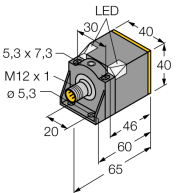
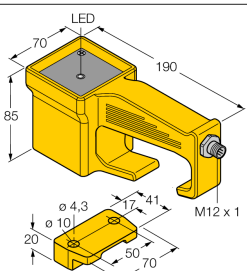
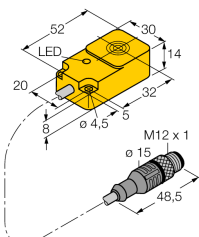
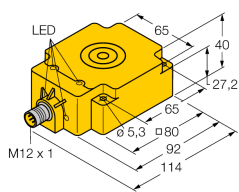
Testing of the application under real operating conditions is therefore essential, especially with read/write on-the-fly!

Type code	TW-L49-46-F-B128
Ident no.	7030390
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	-20...+70 °C
Storage temperature	-20...+70 °C
Design	Smart Label
Housing material	Plastic, PET
Material active face	Foil, PP
Protection class	IP40
Packaged quantity	1
Special features	Smart-Label, self-adhesive

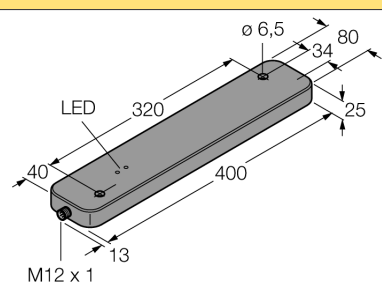
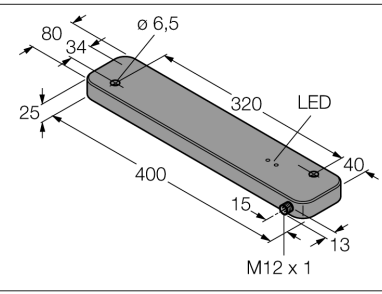
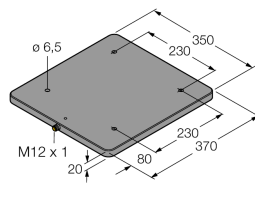
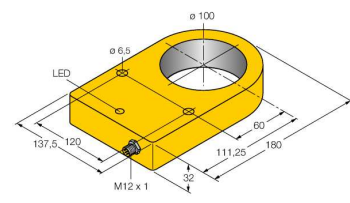
Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads
	Ident - no.	Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	TB-M18-H1147 7030001	12	25	29	14	54
	TB-EM18WD-H1147 7030224	12	25	29	14	54
	TB-M18-H1147/S1126 7030212	12	25	29	14	54
	TB-EM18WD-H1147/S1126 7030228	12	25	29	14	54
	TN-M18-H1147 7030002	21	38	37	18	54
	TN-EM18WD-H1147 7030223	21	38	37	18	54
	TN-M18-H1147/S1126 7030213	21	38	37	18	54
	TN-EM18WD-H1147/S1126 7030227	21	38	37	18	54
	TB-M30-H1147 7030003	21	35	37	18	90
	TB-EM30WD-H1147 7030221	21	35	37	18	90
	TB-M30-H1147/S1126 7030214	21	35	37	18	90
	TB-EM30WD-H1147/S1126 7030225	21	35	37	18	90
	TN-M30-H1147 7030004	25	54	57	28	90
	TN-EM30WD-H1147 7030222	25	54	57	28	90
	TN-M30-H1147/S1126 7030215	25	54	57	28	90
	TN-EM30WD-H1147/S1126 7030226	25	54	57	28	90
	TN-M30-0.15-RS4.47T 7030444	25	54	57	28	90

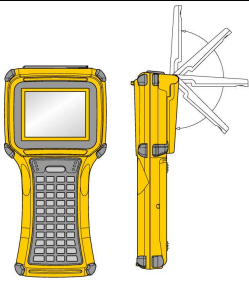
Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads
	Ident - no.	Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	TN-CK40-H1147 7030006	42	76	80	40	120
	TN-CK40-H1147/S1126 7030216	42	76	80	40	120
	HT-IDENT-H1147 7030236	42	76	80	40	120
	HT-IDENT-H1187 7030238	42	76	80	40	120
	TN-Q14-0.15-RS4.47T 7030235	25	54	57	28	90
	Q14-R/W-OPEN-PCB/C37 7030445	25	54	57	28	90
	TN-Q80-H1147 7030007	51	97	98	49	240
	TN-Q80-H1147/S1126 7030217	51	97	98	49	240
	TNLR-Q80-H1147 7030230	76	131	136	68	240
	TNLR-Q80-H1147/S1126 7030219	76	131	136	68	240

Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads
	Ident - no.	Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	TNLR-Q80L400-H1147 7030204Lengthwise	68	176	394	74	240
	TNLR-Q80L400-H1147 7030204	74	175	149	197	240
	TNLR-Q80L400-H1147/S1126 7030324	74	175	149	195	240
	TNLR-Q80L400-H1147/S1126 7030324Lengthwise	68	176	394	74	240
	TNLR-Q80L400-H1147L 7030234	74	176	149	197	240
	TNLR-Q80L400-H1147L 7030234Lengthwise	68	176	394	74	240
	TNLR-Q80L400-H1147L/S1126 7030325	74	176	149	197	240
	TNLR-Q80L400-H1147L/S1126 7030325Lengthwise	68	176	394	197	240
	TNLR-Q350-H1147 7030220	170	353	389	194	1110
	TNLR-Q350-H1147/S1126 7030319	170	353	389	194	1110
	TN-S32XL-H1147 7030008	68	119	148	74	420

Compatible handhelds

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