
Functional principle

The UHF read/write heads form an air interface the size of which may vary, 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.

Attainable distances may vary 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 designation	TW860-960-L53-53-F-B44-100PCS
Ident-No.	7030624

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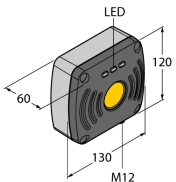
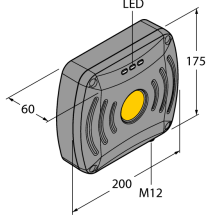
Data transfer	Alternating electromagnetic field
Technology	UHF (860...960 MHz)
Usage region (UHF)	Global (860...960 MHz) ETSI (865...868 MHz) FCC (902...928 MHz)
Reading range	5 m (2W ERP)
Memory type	EEPROM
Chip	Impinj Monza 4D
Memory	44 Byte
Memory	Read/Write
Freely usable memory	4 Byte
EPC memory	16 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 18000-63 EPCglobal Gen 2

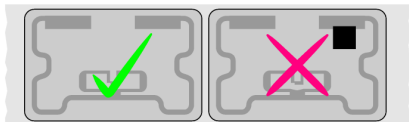
Temperature of data carrier during read/write access	-40...+85 °C
Temperature of data carrier outside detection range	-40...+85 °C

Design	Smart Label, Smart Label
Housing length	53 mm
Housing width	53 mm
Protection class	IP40

Packaging unit	100
Remark to product	Smart-Label, self-adhesive

Read/write heads

Dimensions	Type designation	Max. read distance [m]	
	Ident - no.	air	On metal
	TN925-Q120L130-H1147 100007107	2.4	
	TN925-Q175L200-H1147 100007106	2.4	

Mounting instructions**General Information**

When mounting the tags, only remove them from the roll immediately before affixing them. Remove any dirt from the surfaces to be bonded and allow to dry. Liquids, oils, greases and other substances can reduce the effectiveness of the adhesive. If possible, affix the tag at room temperature (20–25 °C).

Defective tags are indicated by a black dot.

Please do not use this tag.

Upon delivery, the number of marked defective tags is added to the total number of Smart Labels delivered.