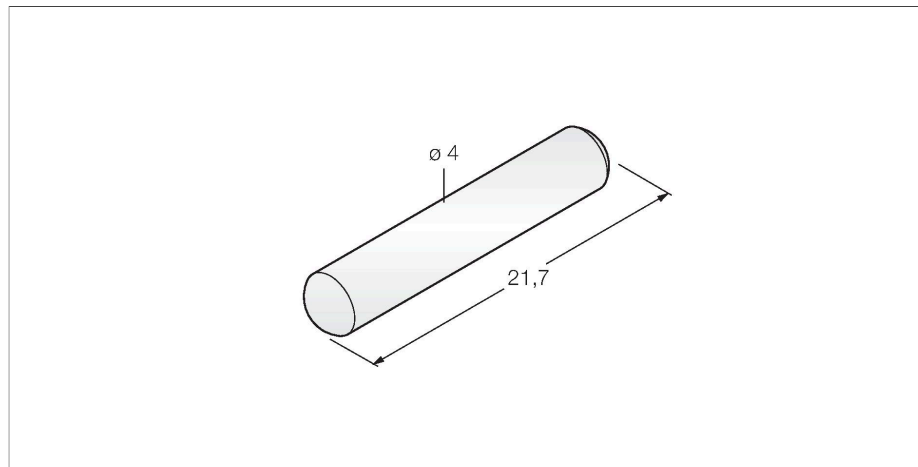


# TW-R4-22-B128

## HF Tag – Glass Tag



### Features

- Mobile tag, for use in autoclaves
- Read/Write
- Distances measured with narrow side of tag aimed towards the read/write head
- The tag must undergo adequate stress tests within the proposed temperature processes before deployment. Otherwise, its durability cannot be guaranteed when exposed to temperatures outside the denoted range.
- EEPROM, memory 128 byte
- Not for direct mounting on metal

### 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, depending on the combination of read/write head 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 tags 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 on-the-fly reading and writing!

### Technical data

Type	TW-R4-22-B128
ID	7030237
Remark to product	Glass tag, for use in autoclaves
Data transfer	Inductive coupling
Technology	HF RFID
Operating frequency	13.56 MHz
Memory type	EEPROM
Chip	NXP I-Code SLI-X
Memory	128 Byte
Memory	Read/Write
Freely usable memory	112 Byte
Number of read operations	unlimited
Number of write operations	10 <sup>5</sup>
Typical read time	2 ms/Byte
Typical write time	3 ms/Byte
Radio communication and protocol standards	ISO 15693 NFC Typ 5
Minimum distance to metal	10 mm
Temperature during read/write access	-25...+70 °C
Temperature outside detection range	-40...+140 °C
	90 °C, 1x1000 h
	120 °C, 1x100 h
	140 °C, 1 × 10 h
Design	Hard tag, R4-22
Diameter	4 mm
Housing material	Glass
Active area material	Glass, Glass
Vibration resistance	200 Hz (1 mm)

## Technical data

Shock resistance	30 g (11 ms)
Protection class	IP68
Static pressure	10 bar
Packaging unit	1