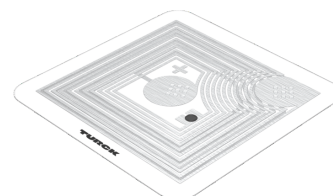
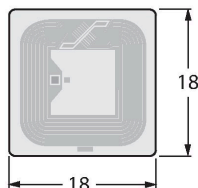


# TW-L18-18-F-B128-2KPCS

## HF Tag – Smart Label



### Technical data

|  |                            |
|--|----------------------------|
| Type                                       | TW-L18-18-F-B128-2KPCS     |
| ID   | 7030701                    |
| Remark to product                          | Smart-Label, self-adhesive |
| Data transfer                              | Inductive coupling         |
| Technology                                 | HF RFID                    |
| Operating frequency                        | 13.56 MHz                  |
| Memory type                                | EEPROM                     |
| Chip                                       | NXP I-Code SLI-X           |
| Memory size                                | 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<br>NFC Typ 5     |
| Minimum distance to metal                  | 10 mm                      |
| Temperature during read/write access       | -20...+70 °C               |
| Temperature outside detection range        | -20...+70 °C               |
| Design                                     | Smart Label                |
| Housing length                             | 18 mm                      |
| Housing width                              | 18 mm                      |
| Housing material                           | Plastic, PET               |
| Active area material                       | Plastic                    |

### Features

- Tags on print roll
- Internal diameter of print roll 76 mm
- Alignment of tags on print roll: outward
- Label spacing: 4 mm
- Web width: 24 mm
- Print: none
- Pack size: 2000 pcs. per roll
- 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.

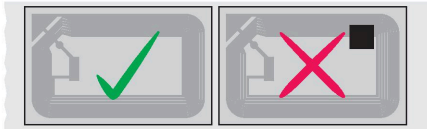
The read/write distances of tags suitable for mounting in/on metal were determined in/on metal.

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

|                  |      |
|------------------|------|
| Protection class | IP40 |
| Packaging unit   | 2000 |

## Mounting instructions/Description



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.

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).