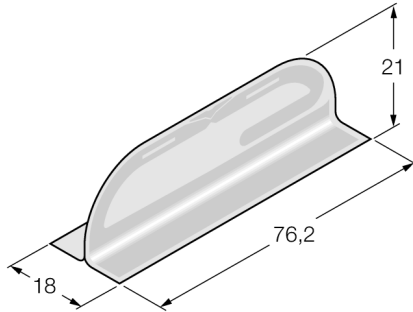




- EEPROM, memory 110 byte
- TID serial number: 4 byte
- For direct mounting on metal

#### 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!

|                  |                              |
|------------------|------------------------------|
| <b>Type code</b> | TW865-928-L76-18-21-F-M-B110 |
| Ident no.        | 7030380                      |

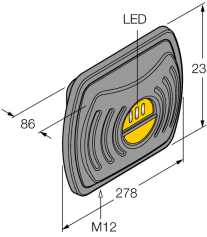
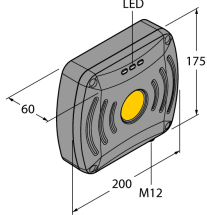
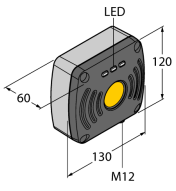
|                                            |                                   |
|--------------------------------------------|-----------------------------------|
| <b>Data transfer</b>                       | alternating electromagnetic field |
| Operating frequency                        | 865...928 MHz                     |
| Memory type                                | EEPROM                            |
| Chip                                       | NXP U-Code G2XM                   |
| Memory                                     | 110 byte                          |
| Memory                                     | read/write                        |
| Freely usable memory                       | 64 byte                           |
| EPC memory                                 | 30 byte                           |
| Number of read operations                  | unlimited                         |
| Number of write operations                 | 10 <sup>4</sup>                   |
| Typical read time                          | 2 ms/byte                         |
| Typical write time                         | 3 ms/byte                         |
| Radio communication and protocol standards | ISO 18000-6C<br>EPCglobal Gen 2   |

|                                  |              |
|----------------------------------|--------------|
| <b>Minimum distance to metal</b> | 0 mm         |
| Ambient temperature              | -35...+85 °C |
| Storage temperature              | -35...+85 °C |

|                      |              |
|----------------------|--------------|
| <b>Construction</b>  | Smart Label  |
| Housing material     | plastic, PET |
| Material active area | plastic, PET |
| IP Rating            | IP67         |

|                          |                            |
|--------------------------|----------------------------|
| <b>Packaged quantity</b> | 1                          |
| Special features         | Smart-Label, self-adhesive |

Read/write heads

| Dimensions                                                                          | Type designation<br><br>Ident - no.                                                                                                                                      | Max. read distance [m]               |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|
|                                                                                     |                                                                                                                                                                          | air                                  | On metal                             |
|    | <b>TN865-Q240L280-H1147</b><br>7030295<br><b>TN902/915-Q240L280-H1147</b><br>7030465                                                                                     |                                      |                                      |
|   | <b>TN865-Q175L200-H1147</b><br>7030452<br><b>TN902-Q175L200-H1147</b><br>7030457<br><b>TN840/920-Q175L200-H1147</b><br>7030466<br><b>TN917-Q175L200-H1147</b><br>7030513 | 2.3<br><br>3.1<br><br>2.5<br><br>2.9 | 5.2<br><br>4.5<br><br>3.8<br><br>4.2 |
|  | <b>TN865-Q120L130-H1147</b><br>7030520<br><b>TN902-Q120L130-H1147</b><br>7030535<br><b>TN840/920-Q120L130-H1147</b><br>7030536<br><b>TN917-Q120L130-H1147</b><br>7030537 | 1.6<br><br>2.2                       | 3.7<br><br>3.2                       |