

■ **FRAM memory 2 kbyte**

**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.

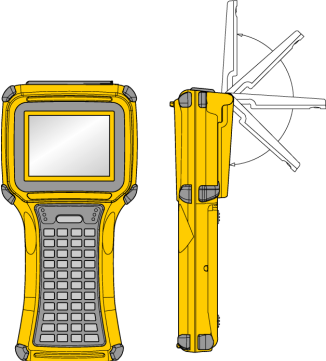

The read/write distances of data carriers suitable for mounting in/on metal were determined in/on metal.

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!

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| <b>Type code</b>                           | TW-BD10X1.5-19-K2                     |
| Ident no.                                  | 6901381                               |
| <b>Data transfer</b>                       | inductive coupling                    |
| Operating frequency                        | 13.56 MHz                             |
| Memory type                                | FRAM                                  |
| Chip                                       | Fujitsu MB89R118                      |
| Memory                                     | 2048 byte                             |
| Memory                                     | read/write                            |
| Freely usable memory                       | 2000 byte                             |
| Number of read operations                  | unlimited                             |
| Number of write operations                 | 10 <sup>10</sup>                      |
| Typical read time                          | 0.5 ms/byte                           |
| Typical write time                         | 0.5 ms/byte                           |
| Radio communication and protocol standards | ISO 15693                             |
| <b>Ambient temperature</b>                 | -25...+85 °C                          |
| <b>Housing material</b>                    | plastic, POM                          |
| Material active area                       | Plastic, yellow, POM                  |
| Protection class                           | IP68                                  |
| <b>Packaged quantity</b>                   | 1                                     |
| Special features                           | data carrier, can be screwed in metal |

Compatible handhelds

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