



1) Sensing surface, 2) Data carrier



### Basic features

<b>Antenna type</b>	round
<b>Approval/Conformity</b>	CE WEEE
<b>EN 55022</b>	Size 1, Cl. B

### Electrical data

<b>Data retention time/years</b>	≥ 10 at 55 °C
<b>Memory organization</b>	250 × 8 bytes
<b>Programming cycles</b>	≥ 10.000.000.000
<b>Programming time</b>	for 16 bytes: 0.060s
<b>Read cycles</b>	Unlimited
<b>Read time</b>	for 16 bytes: 0.03 s User ID for 8 bytes: 0.02 s

### Environmental conditions

<b>Ambient temperature</b>	-25...70 °C
<b>Continuous shock load</b>	yes
<b>EN 60068-2-27, Shock</b>	yes
<b>EN 60068-2-32 Free fall</b>	yes
<b>EN 60068-2-6, Vibration</b>	yes
<b>Protection degree</b>	IP67
<b>Storage temperature</b>	-25...85 °C

### Functional Characteristics

<b>Memory type</b>	FRAM
<b>Supported data carrier types</b>	DIN ISO 15693
<b>UID serial number, read-only</b>	8 Byte
<b>User data, read/write</b>	2000 Byte

### Material

<b>Housing material</b>	PA 12 Cast aluminum
-------------------------	------------------------

HF (13.56 MHz)  
**BIS M-127-02/A**  
Order Code: BIS0176

**BALLUFF**

**Mechanical data**

---

**Application weight** 180 g  
**Dimension** 93 x 43.3 x 57.2 mm

**Installation**

metal-free (clear zone)  
on metal  
flush in metal

**Remarks**

---

Time specification includes data check.  
For installation requirements see corresponding read/write head.  
Only when used together with the appropriate read/write head.  
Values are under rated conditions unless otherwise specified.  
Impact loading not permitted.