



1) Sensing surface parallel, 2) Sensing surface axial, 3) Clear zone, 4) see corresponding R/W head



### Basic features

Antenna type	Rod
Approval/Conformity	CE WEEE
EN 55011	Size 1, Cl. A
EN 55022	Size 1, Cl. B
Principle of operation	Data carrier

### Electrical data

Data retention time/years	≥ 10
Memory organization	52x4 bytes
Programming cycles	up to 50 °C: 100,000
Read cycles	Unlimited
Read time	User ID for 8 bytes: 0.02 s for 16 bytes: 0.03 s

### Environmental conditions

Ambient temperature	-25...85 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
IP rating	IP68, 1 m, 24 h, 20 °C
Storage temperature	-25...85 °C
Storage temperature temporary	120 °C 1x100 h -40 °C...90 °C 1x1000 h 140 °C 1x10 h

### Functional Characteristics

Memory type	EEPROM
Supported data carrier types	DIN ISO 15693
UID serial number, read-only	8 Byte
User data, read/write	208 Byte

### Material

Housing material	Glass, Transparent
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HF (13.56 MHz)  
**BIS M-157-17/A**  
Order Code: **BIS017F**

**BALLUFF**

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**Mechanical data**

**Application weight** 0.10 g

**Dimension**

Ø 2.12 x 12 mm

**Installation**

metal-free (clear zone)

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**Remarks**

Values are under rated conditions unless otherwise specified.  
Only when used together with the appropriate read/write head.  
For installation requirements see corresponding read/write head.  
Time specification includes data check.  
Torsional, bending and impact loading is not permitted.  
For installation in metal: Observe clear zone.  
Only together with read/write heads BIS VM-3xx and IO-Link BIS M-4xx-045-.../ BIS M-4xx-072-.../ BIS M-4Ax-082-...