



- 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 EAC
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

HF (13.56 MHz)  
**BIS M-157-17/A**  
Order Code: BIS017F

**BALLUFF**

### Functional Characteristics

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

### Remarks

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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-401-S4

### Material

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Housing material	Glass, Transparent
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### Mechanical data

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Application weight	0.10 g
Dimension	Ø 2.12 x 12 mm
Installation	metal-free (clear zone)