



1) Sensing surface



**Basic features**

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

**Electrical data**

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

**Environmental conditions**

Ambient temperature	-25...70 °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	IP67
Storage temperature	-25...85 °C

**Functional Characteristics**

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

**Material**

Housing material	Epoxy-resin/fiberglass, GF
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**Mechanical data**

Application weight	1.50 g
Dimension	Ø 11.98 x 6 mm
Installation	metal-free (clear zone) on metal flush in metal

HF (13.56 MHz)  
**BIS M-105-02/A**  
**Order Code: BIS0042**

**BALLUFF**

**Remarks**

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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.