



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



**Basic features**

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

**Electrical data**

Data retention time/years	≥ 50 at 55 °C
Memory organization	28 × 4 bits
Programming cycles	≤ 100.000
Read cycles	Unlimited

**Environmental conditions**

Ambient temperature	-40...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	IPx8
Storage temperature	-40...85 °C

**Functional Characteristics**

Memory type	EEPROM
Supported data carrier types	DIN ISO 15693
UID serial number, read-only	8 Byte
User data, read/write	112 Byte

**Functional safety**

MTTF (40 °C)	109 a
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**Material**

Housing material	Epoxy-resin/fiberglass PVC
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**Mechanical data**

Diameter tolerance	±0.05 mm
Dimension	Ø 4.35 x 3.6 mm
Installation	metal-free (clear zone) on metal flush in metal

HF (13.56 MHz)  
**BIS M-113-03/L**  
**Order Code: BIS018Y**

**BALLUFF**

#### 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.  
Torsional, bending and impact loading is not permitted.  
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.