



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	48 × 4 bits
Programming cycles	≥ 100.000
Programming time	for 4 bytes: 0.305s
Read cycles	Unlimited
Read time	for 4 bytes: 0.18 s

### 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	IP68, 1 m, 24 h, 20 °C
Storage temperature temporary	-40...90 °C 1x1000 h

### Functional Characteristics

Memory type	EEPROM
UID serial number, read-only	4 Byte
User data, read/write	192 Byte

### Material

Housing material	Glass, Transparent
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### Mechanical data

Application weight	0.22 g
Dimension	Ø 3.15 x 13.3 mm
Installation	metal-free (clear zone) on metal flush in metal

LF (125 kHz)  
**BIS L-150-05/A**  
**Order Code: BIS003N**

**BALLUFF**

#### Remarks

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For installation in metal: Observe clear zone.  
Values are under rated conditions unless otherwise specified.  
Usable only with read/write heads HW version 2.0 and higher.  
Only when used together with the appropriate read/write head.  
Torsional, bending and impact loading is not permitted.  
For installation requirements see corresponding read/write head.  
Time specification includes data check.