



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



### Basic features

<b>Antenna type</b>	round
<b>Approval/Conformity</b>	CE WEEE
<b>EN 55011</b>	Size 1, Cl. A
<b>EN 55022</b>	Size 1, Cl. B

### Electrical data

<b>Data retention time/years</b>	$\geq 10$
<b>Memory organization</b>	48 x 4 bytes
<b>Programming cycles</b>	$\geq 100.000$
<b>Programming time</b>	for 4 bytes: 0.305s
<b>Read cycles</b>	Unlimited
<b>Read time</b>	for 4 bytes: 0.18 s

### Environmental conditions

<b>Ambient temperature</b>	-25...85 °C
<b>Continuous shock load</b>	yes
<b>EN 60068-2-27, Shock</b>	yes
<b>EN 60068-2-32 Free fall</b>	yes
<b>EN 60068-2-6, Vibration</b>	yes
<b>Protection degree</b>	IP67 1 m, 30 min
<b>Storage temperature</b>	-40...95 °C

### Functional Characteristics

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

### Material

<b>Housing material</b>	Epoxy-resin/fiberglass, GF
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### Mechanical data

<b>Application weight</b>	2.60 g
<b>Dimension</b>	$\varnothing 30 \times 1.6 \text{ mm}$
<b>Installation</b>	metal-free (clear zone) on metal flush in metal

LF (125 kHz)  
**BIS L-101-05/L**  
Order Code: **BIS0037**

**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.

Time specification includes data check.

Torsional, bending and impact loading is not permitted.

a) Hygroscopicity The hygroscopicity of the cured material depends heavily on the ambient temperature. Saturation in water at +20 °C / 6 days = 0.3 %

Saturation in water at +70 °C / 3 days = 3.0 %

For installation in metal: Observe clear zone.

Recommended screw: M3, 8.8