



- 1) Sensing surface
- 2) Read/write axis
- 3) Tightening torque



### Basic features

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

### Electrical data

<b>Data retention time/years</b>	≥ 10 at 55 °C
<b>Programming cycles</b>	≥ 10.000.000.000
<b>Programming time</b>	for 16 bytes: 0.006s
<b>Read cycles</b>	Unlimited
<b>Read time</b>	User ID for 8 bytes: 0.02 s for 16 bytes: 0.003 s

### Environmental conditions

<b>Ambient temperature</b>	-25...70 °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>IP rating per DIN 40050</b>	IP68 IPx9K
<b>Storage temperature temporary</b>	-25...130 °C 1x1000 h

### Functional Characteristics

<b>Memory type</b>	FRAM
<b>Supported data carrier types</b>	DIN ISO 15693 (High Memory)
<b>UID serial number, read-only</b>	8 Byte
<b>User data, read/write</b>	8192 Byte

### Material

<b>Housing material</b>	PPS, GF40, With EP potting
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### Mechanical data

<b>Application weight</b>	8.00 g
<b>Dimension</b>	22 x 9.7 x 40 mm
<b>Installation</b>	metal-free (clear zone) on metal

HF (13.56 MHz)  
**BIS M-156-11/A**  
**Order Code: BIS012J**

**BALLUFF**

#### Remarks

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Installation type on flat steel  
Order accessories separately.  
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.  
For attaching data carrier BIS Z-HW-002, order code: BAM01FT  
Mounting plate BIS Z-MP-001 Order code: BAM012M