



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



## Basic features

Antenna type	round
Approval/Conformity	CE UKCA WEEE
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	-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	IP67
Storage temperature	-40...130 °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	PA, black
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## Mechanical data

Application weight	10.00 g
Dimension	Ø 30 x 9.7 mm
Installation	metal-free (clear zone) on metal

HF (13.56 MHz)  
BIS M-133-02/A  
Order Code: BIS00Y9

**BALLUFF**

Remarks

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Impact loading not permitted.  
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.  
For installation in metal: Observe clear zone.  
Time specification includes data check.