



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



Basic features

Antenna type	round
Approval/Conformity	CE UKCA 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	28 × 4 bits
Programming cycles	up to 70 °C: 100,000
Programming time	for 16 bytes: 0.1 s
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	IP68
IP rating per DIN 40050	IPx9K
Storage temperature temporary	-40...220 °C 1x1000 h, 1500x30 min

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

Material

Housing material	PPS
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Mechanical data

Application weight	33.00 g
Dimension	51.5 × 6.4 × 51.5 mm
Installation	metal-free (clear zone)

HF (13.56 MHz)
BIS M-138-03/L-HT
Order Code: BIS018R

BALLUFF

Remarks

For installation in metal: Observe clear zone.
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.
Storage temperature 1500 h or 1500 cycles à 30 min.