



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	47 × 16 bits
Programming cycles	≥ 100.000
Programming time	for 16 bytes: 0.040s
Read cycles	Unlimited
Read time	for 16 bytes: 0.02 s User ID for 4 bytes: 0.02s

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 1x1500 h, 1500x30 min

Functional Characteristics

Memory type	EEPROM
Supported data carrier types	DIN ISO 14443
UID serial number, read-only	4 Byte
User data, read/write	736 Byte

Functional safety

MTTF (40 °C)	1248 a
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Material

Housing material	PPS
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Mechanical data

Application weight	20.00 g
Dimension	Ø 49.8 x 5.3 mm
Installation	metal-free (clear zone)

HF (13.56 MHz)
BIS M-137-10/L-HT
Order Code: BIS018P

BALLUFF

Remarks

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.
For installation in metal: Observe clear zone.
Storage temperature 1500 h or 1500 cycles à 30 min.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.