



1) Sensing surface, 2) Clear zone, 3) Clear zone surrounding, 4) Tightening torque



### Basic features

Antenna type	Dipole
Approval/Conformity	CE UKCA WEEE Ecolab
EN 55022	Size 1, Cl. B
Principle of operation	Transponder
Standards	EPCglobal™ Class 1, Gen 2 ISO 18000-6C

### Electrical data

Data retention time/years	≥ 10
EN 61000-4-2/3/4/5/6	Severity level 3A/2A/1/1/1/1
Polarization	linear
Preferred application	865...868 MHz
Programming cycles	up to 25 °C: 100,000
Read cycles	Unlimited
Working frequency	840...960 MHz

### 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, IP68, IP69K
Storage temperature	-40...85 °C

### Functional Characteristics

EPC memory, read/write	96 Bit
Memory type	EEPROM
TID memory, read-only	96 Bit
User data, read/write	512 Bit

### Material

Housing material	PA 12, GF30
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### Mechanical data

Application weight	18.00 g
Dimension	37.2 x 7 x 127 mm
Installation	metal-free (clear zone)

UHF (860...960 MHz)  
**BIS U-100-01/CA**  
**Order Code: BIS00NL**

**BALLUFF**

**Remarks**

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Values are under rated conditions unless otherwise specified.  
Torsional, bending and impact loading is not permitted.  
For fastening the data carrier on flat metal surfaces use BIS Z-SP-003, Order code: BAM01LW  
Observe clear zone when attaching to metal surfaces!  
For installation in metal: Observe clear zone.