



1) Sensing surface, 2) Do not use at same time, 3) Clear zone, 4) Tightening torque, 5) Cut-out



## Basic features

|                     |                     |
|---------------------|---------------------|
| Antenna type        | round               |
| Approval/Conformity | CE<br>cULus<br>WEEE |
| EN 55011            | Size 1, Cl. A       |

## Electrical data

|                     |  |
|---------------------|--|
| Memory organization | 32 × 8 bits                                    |
| Programming cycles  | up to 70 °C: 500,000<br>up to 30 °C: 1,000,000 |
| Programming time    | for 1x8 bits: 0.3s<br>for 32x8 bits: 0.6s      |
| Read cycles         | Unlimited                                      |
| Read time           | for 32x8 bits: 0.19 s                          |

## Environmental conditions

|                         |             |
|-------------------------|-------------|
| Ambient temperature     | -30...70 °C |
| Continuous shock load   | yes         |
| EN 60068-2-27, Shock    | yes         |
| EN 60068-2-32 Free fall | yes         |
| EN 60068-2-6, Vibration | yes         |
| Protection degree       | IP68        |
| Storage temperature     | -30...85 °C |

## Functional Characteristics

|                       |           |
|-----------------------|-----------|
| Memory type           | EEPROM    |
| User data, read/write | 1023 Byte |

## Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 740 a |
|--------------|-------|

## Material

|                  |     |
|------------------|-----|
| Housing material | PBT |
|------------------|-----|

LF (70/455 kHz)  
**BIS C-190-05/L**  
Order Code: **BIS002K**

**BALLUFF**

**Mechanical data**

**Dimension**

34 x 35 x 34 mm

**Application weight** 29.00 g

**Installation**

metal-free (clear zone)

**Remarks**

Only together with converter BIS C-901 or BIS C-6xx and the appropriate read/write head.

Values are under rated conditions unless otherwise specified.

For installation requirements see corresponding read/write head.

Time specification includes data check.

IP68 tested according to BWN Pr 36

On the last page only 31x8 bits are usable.

For installation in metal: Observe clear zone.

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.