

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



**Basic features**

<b>Antenna type</b>	round
<b>Approval/Conformity</b>	CE UKCA FCC Part 15 IC (Radio) cULus WEEE NCC KC MIC
<b>Principle of operation</b>	Read/write head

**Display/Operation**

<b>Function indicator</b>	Operating, LED yellow flashing CP (Code tag present), LED yellow Power (ON), LED green
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**Electrical connection**

<b>Connection</b>	Male, 4-pin
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**Environmental conditions**

<b>Altitude max.</b>	2000 m
<b>Ambient temperature</b>	0...70 °C
<b>Area of operation</b>	Indoor
<b>Contamination scale</b>	2
<b>Continuous shock load</b>	yes
<b>EN 60068-2-27, Shock</b>	yes
<b>EN 60068-2-32 Free fall</b>	yes
<b>EN 60068-2-6, Vibration</b>	yes
<b>IP rating</b>	IP67
<b>Relative humidity</b>	0...90 %, non-condensing
<b>Storage temperature</b>	-20...85 °C

**Functional Characteristics**

<b>Supported data carrier types</b>	DIN ISO 15693 DIN ISO 15693 (High Memory)
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**Material**

<b>Housing material</b>	Brass, Nickel-plated brass nuts, nickel-plated
<b>Housing material, surface protection</b>	nickel-plated

HF (13.56 MHz)  
**BIS VM-348-401-S4**  
Order Code: **BIS013H**

# BALLUFF

### Mechanical data

Application weight 30.00 g

### Dimension

Ø 12 x 65 mm

### Installation

metal-free (clear zone)

### Size

M12x1

### Remarks

For basic equipment: Accessories see [www.balluff.com](http://www.balluff.com)

Use included nuts for installation.

Values are under rated conditions unless otherwise specified.

For installation in metal: Observe clear zone.

Only together with BIS V-6xxx

This device is intended to be supplied by a UL-listed or CSA-certified power supply unit with "Class 2" or LPS power source.

The devices must be installed permanently.

1. Determine a suitable mounting position.

2. Fasten the device with suitable mounting material.

The device can be cleaned with a slightly damp cloth.

Regularly check the function of the device and all associated components through visual and functional tests.

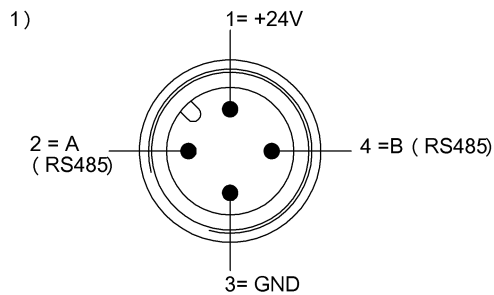
- Shut down the device in the event of malfunctions.

- Secure the system against unauthorized use.

- Check fastening and tighten if necessary.

The product is maintenance-free.

### Connector Drawings



1) View towards connector

