



9) Sensing surface, 10) Clear zone



### Basic features

Antenna type	round
Approval/Conformity	CE UKCA WEEE
EN 55011	Size 1, Cl. A
Principle of operation	Read/write head

### Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
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### Electrical data

Operating voltage $U_b$	19.2...28.8 VDC
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### Environmental conditions

Altitude max.	2000 m
Ambient temperature	0...70 °C
Area of operation	Indoor
Contamination scale	2
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
Relative humidity	0...90 %, non-condensing
Storage temperature	-20...85 °C

### Material

Housing material	PVDF, Nuts PA 6.6
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LF (125 kHz)  
**BIS VL-300-001-S4**  
**Order Code: BIS00UL**

**BALLUFF**

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#### Mechanical data

Application weight 130.00 g

#### Dimension

Ø 30 x 82 mm

#### Installation

metal-free (clear zone)

#### Size

M30x1.5

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#### Remarks

For installation in metal: Observe clear zone.

Values are under rated conditions unless otherwise specified.

Use included plastic nuts for installation.

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

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.

## Help Views

**BIS VL-300-**

	BIS L-100-01/L			BIS L-101-01/L			BIS L-102-01/L		
	metallfrei	auf Stahl	on steel	metallfrei	auf Stahl	on steel	metallfrei	auf Stahl	on steel
	0-30	10-20	10-20	0-40	10-30	10-30	0-55	15-40	15-35
passende Datenträger Appropriate data carriers									
Schreibabstand in mm Write distance in mm	0-30	10-20	10-20	0-40	10-30	10-30	0-55	15-40	15-35
Leseabstand in mm Read distance in mm	0-30	10-20	10-20	0-40	10-30	10-30	0-55	15-40	15-35
Versatz in mm bei Abstand von	0 ±18			±28			±30		
	3 ±18			±28			±30		
	7 ±18			±28			±30		
	8 ±18			±28			±30		
Offset in mm at distance	10 ±18	±8	±8	±28	±15	±13	±30		
	12 ±18	±8	±8	±28	±15	±13	±30		
	15 ±18	±5	±5	±28	±15	±10	±30	±20	±20
	18 ±18	±2	±2	±28	±15	±10	±30	±20	±18
	20 ±18	±0	±0	±28	±15	±10	±30	±20	±15
	25 ±18			±28	±10	±5	±30	±15	±15
	30 ±18			±28	±0	±0	±30	±15	±10
	35			±28			±30	±15	±0
	40			±28			±30	±0	
	45						±30		
	50						±30		
	55						±0		
	60								
	70								

## BIS VL-300-\_\_\_

BIS L-200-03/L BIS L-100-05/L-RO	metallfrei auf Stahl on steel bundig in Stahl Flush in steel	BIS L-201-03/L BIS L-101-05/L-RO	metallfrei auf Stahl on steel bundig in Stahl Flush in steel	BIS L-202-03/L BIS L-102-05/L-RO	metallfrei auf Stahl on steel bundig in Stahl Flush in steel	BIS L-203-03/L BIS L-103-05/L-RO	metallfrei auf Stahl on steel bundig in Stahl Flush in steel
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passende Datenträger  
 Appropriate data carriers

Schreibabstand in mm

Write distance in mm

Leseabstand in mm

Read distance in mm

Versatz in mm  
 bei Abstand von

Offset in mm  
 at distance

0	±20	0-40	10-25	10-20	0-50	10-35	10-30	0-70	15-45	15-40	0-25	3-12	3-10
3	±20				±28			±35			±15		
7	±20				±28			±35			±15	±12	±9
8	±20				±28			±35			±15	±12	±8
10	±20	±15	±10	±10	±28	±20	±17	±35			±15	±9	±7
12	±20	±15	±10	±10	±28	±20	±17	±35			±15	±0	
15	±20	±10	±10	±10	±28	±20	±17	±35	±25	±20	±15		
18	±20	±10	±10	±10	±28	±20	±17	±35	±25	±20	±15		
20	±20	±10	±0	±0	±28	±20	±15	±35	±25	±20	±15		
25	±20	±0			±28	±20	±15	±35	±20	±20	±13		
30	±20				±28	±15	±0	±35	±20	±20			
35	±20				±28	±0		±35	±15	±15			
40	±20				±28			±35	±12	±0			
45					±28			±35	±0				
50					±28			±35					
55					±28			±35					
60					±28			±35					
70					±28			±35					