

1) Sensing surface, 2) Clear zone, 3) Clear zone surrounding, 4) Cable length



Basic features

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

Electrical connection

Bending radius min., fixed cable	5 x D
Bending radius min., flexible cable	10 x D
Cable diameter D	5.40 mm
Cable length L	0.5 m, drag chain compatible
Cable, bending cycles min.	2 mil.
Connection	M12x1-Male, 4-pin, A-coded
Connection type	0.50 m, PU

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
Cable temperature, drag chain	-25...60 °C
Cable temperature, fixed routing	-50...80 °C
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	ABS, GF16, Interface aluminum
Material jacket	PU

Mechanical data

Application weight 210.00 g

Dimension

25 x 10 x 50 mm

Installation

metal-free (clear zone)

Remarks

Use included fastening clamps for installation.

Values are under rated conditions unless otherwise specified.

For installation in metal: Observe clear zone.

For basic equipment: Accessories see 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.

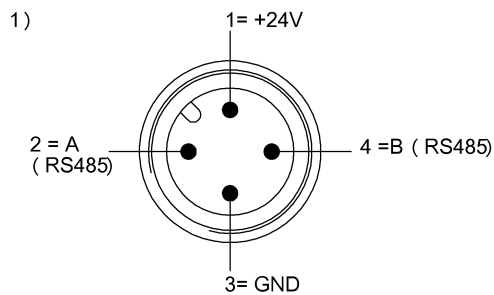
- Shut down the device in the event of malfunctions.

- Secure the system against unauthorized use.

- Check fastening and tighten if necessary.

The product is maintenance-free.

Connector Drawings



1) View towards connector

Help Views

BIS VL-304-

	BIS L-100-01/L		BIS L-101-01/L		BIS L-102-01/L	
	metallfrei	auf Stahl	metallfrei	auf Stahl	metallfrei	auf Stahl
	non metal	on steel	non metal	on steel	non metal	on steel
	metallfrei	bündig in Stahl	metallfrei	bündig in Stahl	metallfrei	bündig in Stahl
	non metal	flush in steel	non metal	flush in steel	non metal	flush in steel
passende Datenträger Appropriate data carriers	0-20	8-15	0-25	10-20	0-30	10-25
Schreibabstand in mm Write distance in mm	0-20	8-15	0-25	10-20	0-30	10-25
Leseabstand in mm Read distance in mm	0-20	8-15	0-25	10-20	0-30	10-25
Versatz in mm bei Abstand von Offset in mm at distance	0 ±10	±5	±12	±10	±15	±10
	3 ±10	±5	±12	±10	±15	±10
	7 ±10	±5	±12	±10	±15	±10
	8 ±10	±6	±12	±10	±15	±10
	10 ±10	±5	±12	±10	±15	±10
	12 ±10	±3	±12	±10	±15	±10
	15 ±10	±0	±12	±5	±15	±5
	18 ±10	±0	±12	±0	±15	±0
	20 ±10	±0	±12	±0	±15	±0
	25 ±10	±0	±12	±0	±15	±0
	30 ±10	±0	±12	±0	±15	±0
	35 ±10	±0	±12	±0	±15	±0
	40 ±10	±0	±12	±0	±15	±0
	45 ±10	±0	±12	±0	±15	±0
	50 ±10	±0	±12	±0	±15	±0
	55 ±10	±0	±12	±0	±15	±0
	60 ±10	±0	±12	±0	±15	±0
	70 ±10	±0	±12	±0	±15	±0

BIS VL-304-

BIS L-200-03/L BIS L-100-05/L-RO	metallfrei auf Stahl on steel bündig in Stahl flush in steel
BIS L-201-03/L BIS L-101-05/L-RO	metallfrei non metal auf Stahl on steel bündig in Stahl flush in steel
BIS L-202-03/L BIS L-102-05/L-RO	metallfrei non metal auf Stahl on steel bündig in Stahl flush in steel
BIS L-203-03/L BIS L-103-05/L-RO	metallfrei non metal auf Stahl on steel bündig in Stahl flush in steel

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	±13	0-25	8-15	8-15	0-30	10-20	10-20	0-40	10-25	10-20	0-15	4-10	3-8
3	±13				±15			±20			±6		
4	±13				±15			±20			±6	±7	±5
8	±13	±8	±6	±15	±15			±20			±6	±6	±3
10	±13	±8	±6	±15	±15	±10	±10	±20	±15	±8	±6	±6	±5
12	±13	±8	±6	±15	±15	±10	±10	±20	±15	±8	±6		
15	±13	±0	±0	±15	±15	±10	±8	±20	±15	±6	±6		
18	±13			±15	±15	±0	±0	±20	±10	±0			
20	±13			±15	±15	±0	±0	±20	±10	±0			
25	±13			±15	±15			±20	±0				
30				±15	±15			±20					
35				±15	±15			±20					
40								±20					
45													
50													
55													
60													
70													