

1) Sensing surface, 2) Data carrier, 3) LED (Power), 4) LED (CP), 5) Tightening torque



Basic features

Antenna type	round
Approval/Conformity	CE UKCA FCC Part 15 IC (Radio) cULus WEEE
Principle of operation	Read/write head

Display/Operation

Function indicator	Operating, LED yellow flashing CP (Code tag present), LED yellow Power (ON), LED green
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Electrical connection

Cable length L	300 mm
Connection	Male, 4-pin
Connection type	300 mm

Environmental conditions

Altitude max.	2000 m
Ambient temperature	0...80 °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

Functional Characteristics

Supported data carrier types	DIN ISO 15693 DIN ISO 15693 (High Memory)
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Functional safety

MTTF (40 °C)	274 a
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Material

Housing material	Zinc, Die casting, nickel-plated
Housing material, surface protection	nickel-plated

HF (13.56 MHz)
BIS VM-349-401-S4
Order Code: BIS0197



Mechanical data

Application weight	100.00 g
Dimension	20 x 8 x 32 mm

Installation

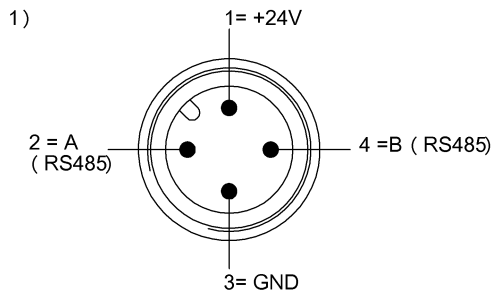
metal-free (clear zone)
on metal
flush in metal

Remarks

Only for data carriers acc. to ISO 15693.
For basic equipment: Accessories see www.balluff.com
Values are under rated conditions unless otherwise specified.
For installation in metal: Observe clear zone.
Only together with BIS V-61xx
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.
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.

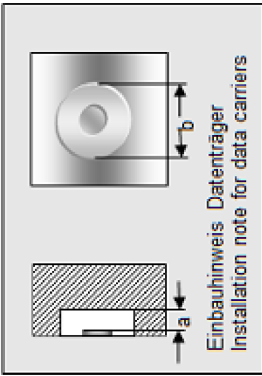
Connector Drawings



Help Views

BIS VM-349-401

	BIS M-105-02/A	BIS M-108-02/L	BIS M-110-02/L	BIS M-111-02/L
passende Datenträger Appropriate data carriers				
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>20 >0	>20 >0	>25 >0	>25
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100 >100 >0	>100 >100 >0	>100 >100	>100
Schreibabstand in mm Write distance in mm	0-10 0-9.5 0-7	0-13 0-9.5 0-7	0-12 0-5	3-13
Lesabstand in mm Read distance in mm	0-10 0-9.5 0-7	0-13 0-9.5 0-7	0-12 0-5	3-13
Versatz in mm bei Abstand von	0 ±5 ±5 ±5 2 ±5 ±5 ±5 4 ±5 ±5 ±4.5 5 ±4.5 ±4 ±4 6 ±4.5 ±4 ±4 7 ±4.5 ±4 ±2 8 ±4.5 ±4 9 ±2 ±2 9.5 ±2 ±2 10 ±1 12 13 15 20 25 30 35 40 45 50 55	±9 ±8 ±7 ±9 ±8 ±7 ±9 ±8 ±6 ±9 ±7 ±5 ±8 ±7 ±5 ±8 ±7 ±1.5 ±8 ±7 ±8 ±4 ±8 ±4 ±8 ±3 ±3	±7 ±5 ±7 ±5 ±7 ±4 ±7 ±2 ±6 ±6 ±6 ±6 ±3 ±3	±8 ±8 ±8 ±8 ±8 ±8 ±8 ±3 ±3
Offset in mm at distance				



BIS VM-349-401

	BIS M-113-03/L	BIS M-116-03/A	BIS M-122-02/A	BIS M-142-02/A-xx	BIS M-143-02/A-xx
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>20 >0	>20 >0	>20 >0	>0	>0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100 >100	>100 >100	>100 >100	>100	>100
Schreibabstand in mm Write distance in mm	0-6 0-5,5	0-6,5 0-4 1,3-2,5	0-8 0-8 0-6	0-13	0-10
Leseabstand in mm Read distance in mm	0-6 0-5,5	0-6,5 0-4 1,3-2,5	0-8 0-8 0-6	0-13	0-10
Versatz in mm bei Abstand von	0 ±5 ±4	±4 ±4	±5 ±4,5 ±4	±7	±6
	2 ±5 ±4	±4 ±4 ±2	±5 ±4,5 ±4	±7	±6
	2,5 ±4 ±3,5	±3 ±3 ±0,5	±5 ±4,5 ±3	±7	±6
	3 ±4 ±3,5	±3 ±3	±5 ±4,5 ±3	±7	±6
	4 ±4 ±3,5	±3 ±2	±5 ±4,5 ±3	±7	±6
	5 ±4 ±2	±3	±4 ±4 ±3	±7	±5
	5,5 ±2 ±2	±2	±4 ±4 ±2	±6	±5
	6 ±2	±2	±4 ±4 ±2	±6	±5
	6,5	±2	±4 ±4	±6	±5
	7		±4 ±4	±6	±5
	8		±2 ±2	±6	±5
	9			±6	±3
	9,5			±6	±3
	10			±6	±3
	12			±3	
	13			±3	
	15				
	20				
	25				
	30				
	35				

