

1) Sensing surface, 2) LED (CP), 3) LED (Power), 4) Clear zone, 5) Data carrier, 6) Tightening torque



Basic features

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

Display/Operation

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

Connection	Male, 4-pin
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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

Functional Characteristics

Supported data carrier types	DIN
	ISO
	14443
	DIN ISO 15693

Mechanical data

Application weight	100.00 g
Dimension	Ø 30 x 70.5 mm
Installation	metal-free (clear zone)
Size	M30x1.5

Material

Housing material	Brass, Brass nuts with white bronze, coated
Housing material, surface protection	coated

Remarks

For basic equipment: Accessories see 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-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.

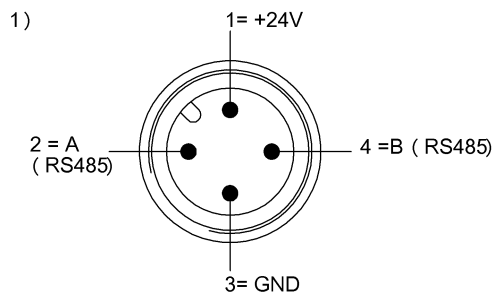
The device can be cleaned with a slightly damp cloth.

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.

Connector Drawings

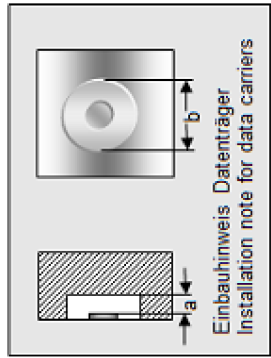


1) View towards connector

Help Views

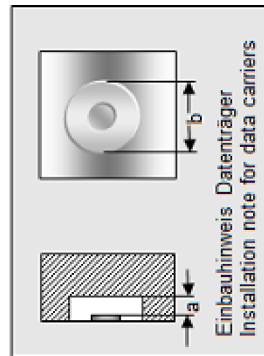
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	BIS M-101-01/L	BIS M-102-01/I	BIS M-105-01/A	BIS M-105-02/A	BIS M-106-02/L
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>50	>20	>20	>25
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>150	>100	>100	>100
Schreibabstand in mm Write distance in mm	0-22	0-32	0-9	0-11	0-30
Lesabstand in mm Read distance in mm	0-22	0-32	0-9	0-11	0-30
Versatz in mm bei Abstand von	±15	±20	±7	±10	±18
	±12	±15	±6	±7	±10
	±10	±15	±5	±8	±18
	±8	±12	±4	±5	±16
	±15	±20			±16
	±12	±15			±16
	±10	±12			±16
	±8	±10			±16
	±6	±8			±16
	±4	±6			±16
	±4	±4			±16
	±6	±10			±16
	±8	±12			±16
	±10	±15			±16
	±12	±20			±16
	±15	±20			±16
	±18	±20			±16
	±20	±20			±16
	±22	±20			±16
	±25	±18			±16
	±30	±14			±16
	±32	±10			±16
	±35	±4			±16
	±40				±16
	±43				±16
	±45				±16
	±50				±16
	±52				±16
	±60				±16
	±65				±16
	±70				±16



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	BIS M-110-02/L	BIS M-111-02/L	BIS M-112-02/L	BIS M-132-03/L-HT	BIS M-135-03/L-HT
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25 >10 >5	>25 >10 >5	>50 >15 >10	>25 >0	>50
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100 >60 >50	>100 >60 >50	>150 >90 >70	>100 >100	>150
Schreibabstand in mm Write distance in mm	0-22 0-16 0-10	0-28 0-18 0-10	0-44 0-25 0-15	0-30 0-8	0-42
Leseabstand in mm Read distance in mm	0-22 0-16 0-10	0-28 0-18 0-10	0-44 0-25 0-15	0-30 0-8	0-42
Versatz in mm bei Abstand von	0 ±14 ±8 ±7	0 ±16 ±10 ±7	±25 ±18 ±15	±18 ±8	±30
	5 ±14 ±8 ±7	±16 ±10 ±7	±25 ±18 ±15	±18 ±6	±30
	8 ±12 ±6 ±2	±14 ±8 ±2	±25 ±16 ±12	±18 ±3	±30
	10 ±12 ±6 ±2	±14 ±8 ±2	±25 ±16 ±12		±30
	12 ±12 ±5	±14 ±7	±24 ±15 ±10		±28
	15 ±12 ±4	±14 ±6	±24 ±14 ±8		±28
	16 ±10 ±2	±14 ±3	±24 ±12		±28
	18 ±10	±14 ±2	±24 ±12		±28
	20 ±10	±14	±24 ±10		±28
	22 ±6	±12	±22 ±8		±24
	25	±12	±22 ±6		±24
	30		±22		±24
	32		±16		±24
	35		±16		±24
	40		±16		±5
	42		±10		±5
	44				
	50				
	60				
	65				
	70				



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	BIS M-107-03/L- H200	BIS M-140-02/A- xx	BIS M-142-02/A- xx	BIS M-143-02/A- xx	BIS M-144-02/A- xx
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>0	>0	>0	>0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100	>100	>100	>100
Schreibabstand in mm Write distance in mm	0-27	0-22	0-22	0-13	0-22
Leserabstand in mm Read distance in mm	0-27	0-22	0-22	0-13	0-22
Versatz in mm bei Abstand von	0 5 10 13 15 18 20 22 25 27 30 32 35 40 43 45 50 52 60 65 70	±16 ±16 ±16 ±14 ±14 ±14 ±14 ±12 ±12 ±5	±13 ±13 ±13 ±11 ±11 ±11 ±7 ±7	±13 ±13 ±9 ±5	±13 ±13 ±13 ±11 ±11 ±11 ±7 ±7
Offset in mm at distance					

