

1) Sensing surface, 2) Read/write axis, 3) LED Power, 4) LED (CP), 5) Data carrier, 6) Tightening torque



Basic features

Antenna type	Rod
Approval/Conformity	CE UKCA cULus FCC IC (Radio) WEEE NCC KC MIC
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

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 15693 DIN ISO 15693 (High Memory)
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Material

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

Mechanical data

Application weight	360.00 g
Dimension	40 x 15 x 105 mm
Installation	metal-free (clear zone)

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.

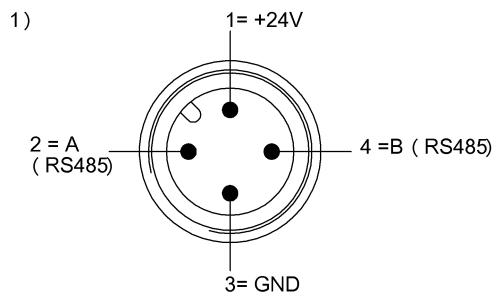
The device can be cleaned with a slightly damp cloth.

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.

Connector Drawings

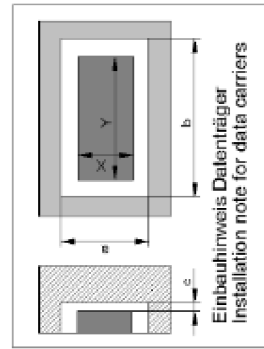


1) View towards connector

Help Views

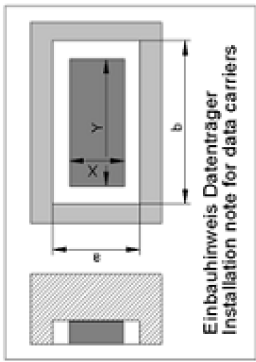
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	BIS M-152-03/A BIS M-158-03/A	BIS M-153-02/A	BIS M-153-02/A	BIS M-153-02/A	BIS M-153-1x/A	BIS M-157-17/A
passende Datenträger Appropriate data carriers						
Freizone Datenträger in mm (a) Data carrier clear zone in mm	>200 >200	>240 >240	>240 >240	>240 >240	>240 >240	>200 >200
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>200 >200	>480 >480	>480 >480	>480 >480	>480 >480	>200 >200
Freizone Datenträger in mm (c) Data carrier clear zone in mm	>50 >50	>50 >50	>50 >50	>0 >0	>50 >50	>50 >50
Schreibabstand in mm Write distance in mm	0-21 0-21	0-60 0-60	0-60 0-60	0-60 0-60	0-36 0-36	0-15 0-15
Leseabstand in mm Read distance in mm	0-21 0-21	0-60 0-60	0-60 0-60	0-60 0-60	0-36 0-36	0-15 0-15
Versatz in mm bei Abstand von Offset in mm at distance	X Y 0 +24 ±11 5 +24 ±11 10 ±20 ±11 13 ±20 ±11 15 ±20 ±10 20 ±10 ±6 25 ±3 ±3 30 36 40 42 50 52 60 75 83 100	X Y +80 ±36 +80 ±36 +80 ±36 +80 ±36 +80 ±36 +80 ±36 +75 ±30 +75 ±30 +75 ±30 +75 ±30 +75 ±30 +55 ±25 +20 ±10	X Y +80 ±36 +80 ±36 +80 ±36 +80 ±36 +80 ±36 +80 ±36 +75 ±30 +75 ±30 +75 ±30 +75 ±30 +75 ±30 +55 ±25 +20 ±10	X Y +80 ±36 +80 ±36 +80 ±36 +80 ±36 +80 ±36 +80 ±36 +75 ±30 +75 ±30 +75 ±30 +75 ±30 +75 ±30 +55 ±25 +20 ±10	X Y +50 ±26 +50 ±26 +50 ±26 +50 ±26 +50 ±26 +50 ±26 +40 ±20 +35 ±17 +20 ±10	X Y +20 ±11 +20 ±11 +17 ±9 +14 ±7 +8 ±3



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	BIS M-155-1x/A	BIS M-155-1x/A	BIS M-156-1x/A	BIS M-156-1x/A
passende Datenträger				
Appropriate data carriers				
Freizone Datenträger in mm (a)				
Data carrier clear zone in mm	>200	>200	>200	>200
Freizone Datenträger in mm (b)				
Data carrier clear zone in mm	>200	>200	>200	>200
Datenträger Metall-Montagefläche 40x22	0-34	0-34	0-30	0-30
Data carrier metal mounting surface 40x22				
Datenträger Metall-Montagefläche ≥ 200x200		0-34	0-34	
Data carrier metal mounting surface ≥ 200x200				
Schreibabstand in mm				
Write distance in mm	0-34	0-34	0-30	0-30
Leseabstand in mm				
Read distance in mm	0-34	0-34	0-30	0-30
Versatz in mm bei Abstand von	X	Y	Y	X
Offset in mm at distance	0 ±38 ±18	±40 ±18	±40 ±20	±40 ±20
	5 ±38 ±18	±40 ±18	±40 ±20	±40 ±20
	10 ±38 ±18	±40 ±18	±40 ±20	±40 ±20
	15 ±38 ±18	±40 ±18	±38 ±17	±38 ±17
	18 ±35 ±15	±40 ±18	±38 ±17	±38 ±17
	20 ±35 ±15	±40 ±18	±38 ±17	±38 ±17
	22 ±35 ±15	±35 ±16	±30 ±15	±30 ±15
	25 ±35 ±15	±35 ±16	±16 ±7	±16 ±7
	30 ±27 ±12	±35 ±16	±16 ±7	±16 ±7
	34 ±15 ±8	±15 ±8		
	36			
	39			
	42			
	50			
	52			
	60			
	65			



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	BIS M-155-20/A	BIS M-155-20/A	BIS M-156-20/A	BIS M-156-20/A
passende Datenträger				
Appropriate data carriers				
Freizone Datenträger in mm (a)				
Data carrier clear zone in mm	>200	>200	>200	>200
Freizone Datenträger in mm (b)				
Data carrier clear zone in mm	>200	>200	>200	>200
Datenträger Metall-Montagefläche 40x22				
Data carrier metal mounting surface 40x22	0-45	0-45	0-45	0-45
Datenträger Metall-Montagefläche ≥ 200x200				
Data carrier metal mounting surface ≥ 200x200	0-45	0-45	0-45	0-45
Schreibabstand in mm				
Write distance in mm	0-45	0-45	0-45	0-45
Leseabstand in mm				
Read distance in mm	0-45	0-45	0-45	0-45
Versatz in mm bei Abstand von				
Offset in mm at distance	X	Y	X	Y
	0 ±58 ±24	±58 ±24	±55 ±24	±48 ±20
	5 ±58 ±24	±58 ±24	±55 ±24	±48 ±20
	10 ±58 ±24	±58 ±24	±55 ±24	±48 ±20
	15 ±58 ±24	±58 ±24	±55 ±24	±48 ±20
	20 ±58 ±24	±58 ±24	±55 ±24	±48 ±20
	25 ±53 ±21	±53 ±21	±50 ±20	±38 ±16
	30 ±53 ±21	±53 ±21	±50 ±20	±38 ±16
	35 ±53 ±21	±53 ±21	±50 ±20	±38 ±16
	40 ±45 ±18	±45 ±18	±40 ±18	±38 ±16
	45 ±25 ±12	±25 ±12	±20 ±10	±20 ±10
	50			
	54			
	56			
	60			
	70			
	75			
	80			

