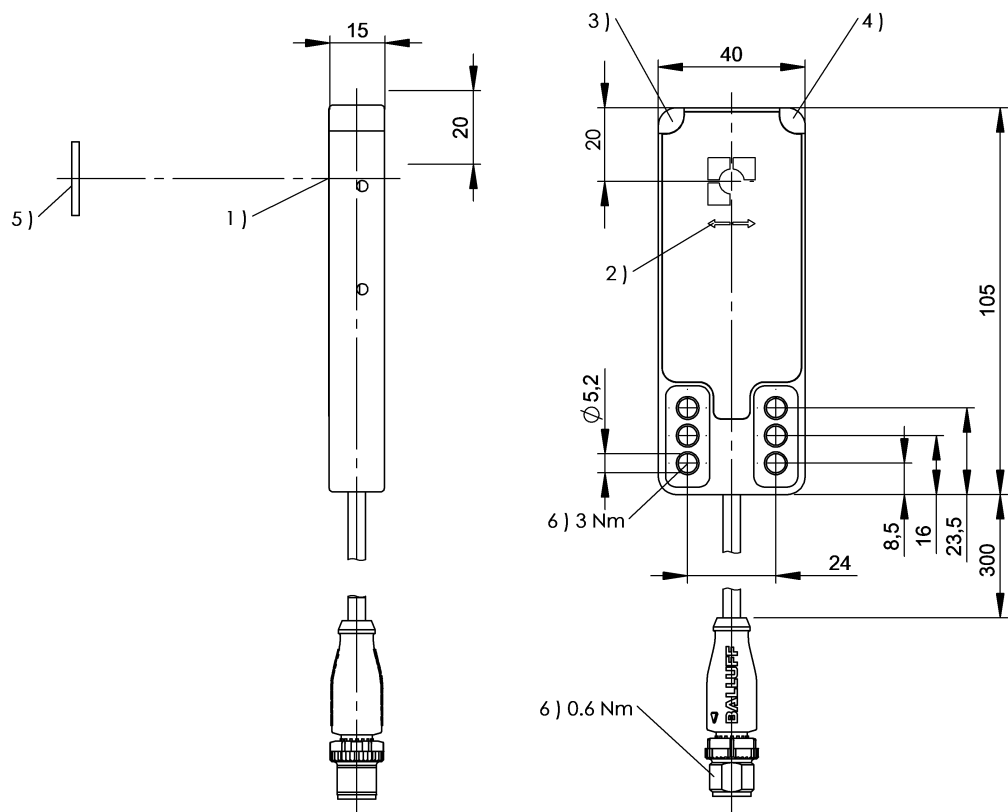




1) Sensing surface, 2) Read/write axis, 3) LED Power, 4) LED (CP), 5) Data carrier, 6) Tightening torque



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

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.

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.

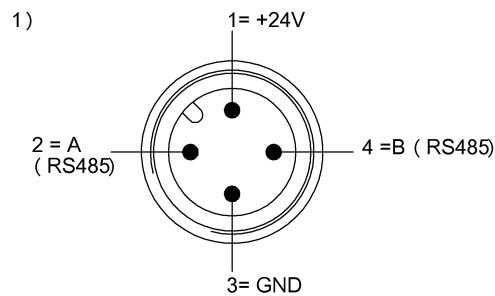
- Shut down the device in the event of malfunctions.

- Secure the system against unauthorized use.

- Check fastening and tighten if necessary.

The product is maintenance-free.

Connector Drawings

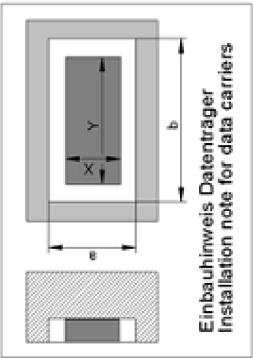


1) View towards connector

Help Views

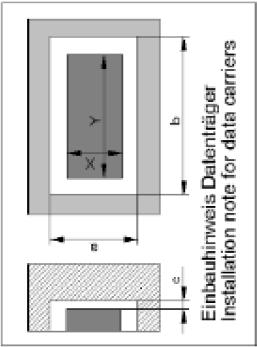
BIS VM-355-401

passende Datenträger Appropriate data carriers	BIS M-150-02/A	BIS M-151-02/A	BIS M-150-02/A	BIS M-151-02/A	
Freizone Datenträger in mm (a) Data carrier clear zone in mm	>200 >200	>200 >200	>200 >200	>200 >200	
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>200 >200	>200 >200	>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					
Schreibabstand in mm Write distance in mm	0.45 0.45	0.45 0.45	0.45 0.45	0.45 0.45	
Leseabstand in mm Read distance in mm	0.45 0.45	0.45 0.45	0.45 0.45	0.45 0.45	
Versatz in mm bei Abstand von	X Y	Y X	X Y	Y X	
	0 ±50 ±24	±50 ±24	±50 ±24	±50 ±24	
	5 ±50 ±24	±50 ±24	±50 ±24	±50 ±24	
	12 ±50 ±24	±50 ±24	±50 ±24	±50 ±24	
	15 ±50 ±24	±50 ±24	±50 ±24	±50 ±24	
	18 ±50 ±24	±50 ±24	±50 ±24	±50 ±24	
	20 ±50 ±24	±50 ±24	±50 ±24	±50 ±24	
	22 ±40 ±20	±40 ±20	±40 ±20	±40 ±20	
	25 ±40 ±20	±40 ±20	±40 ±20	±40 ±20	
	30 ±40 ±20	±40 ±20	±40 ±20	±40 ±20	
	32 ±40 ±20	±40 ±20	±40 ±20	±40 ±20	
	35 ±40 ±20	±40 ±20	±40 ±20	±40 ±20	
	40 ±38 ±18	±38 ±18	±38 ±18	±38 ±18	
	45 ±20 ±10	±20 ±10	±20 ±10	±20 ±10	
	50				
	52				
	60				
	65				



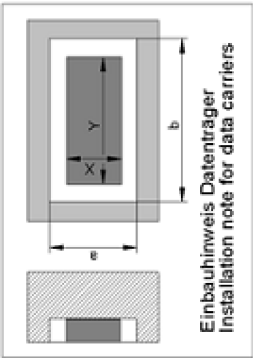
BIS VM-355-401

passende Datenträger Appropriate data carriers	BIS M-152-03/A BIS M-158-03/A	BIS M-153-02/A	BIS M-153-02/A	BIS M-153-1x/A	BIS M-157-17/A
Freizone Datenträger in mm (a)					
Data carrier clear zone in mm	>200 >200	>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	>200 >200
Freizone Datenträger in mm (c)					
Data carrier clear zone in mm	>50 >50	>50 >50	>0 >0	>50 >50	>50 >50
Schreibabstand in mm	0-21 0-21	0-60 0-60	0-60 0-60	0-36 0-36	0-15 0-15
Write distance in mm					
Lesabstand in mm	0-21 0-21	0-60 0-60	0-60 0-60	0-36 0-36	0-15 0-15
Read distance in mm					
Versatz in mm bei Abstand von	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 +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 +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
Offset in mm at distance					



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



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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	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			

Einbauhinweis Datenträger
Installation note for data carriers

BIS VM-355-401

passende Datenträger	BIS M-191-02/A				
Appropriate data carriers					
Freizone Datenträger in mm (a)					
Data carrier clear zone in mm	>27	>27			
Freizone Datenträger in mm (b)					
Data carrier clear zone in mm	>27	>27			

Schreibabstand in mm					
Write distance in mm					
Leseabstand in mm	0-25	0-25			
Read distance in mm					
Versatz in mm					
bei Abstand von					
Offset in mm					
at distance					
	0	±30	±20		
	5	±30	±20		
	10	±30	±20		
	15	±25	±15		
	20	±15	±10		
	25	±5	±5		
	27				
	35				
	40				
	42				
	50				
	57				
	60				
	65				
	70				
	75				

