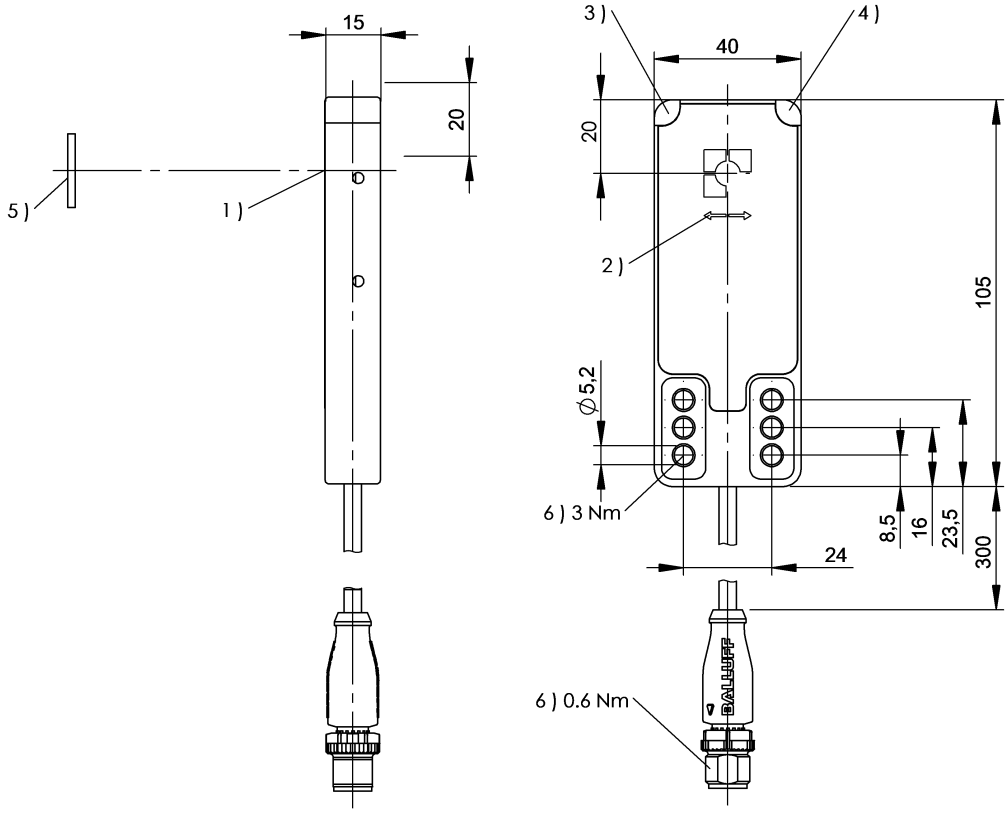
HF (13.56 MHz)

BIS VM-355-401-S4
Order Code: BIS0131



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

Electrical connection

Connection	Male, 4-pin

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)

Material

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

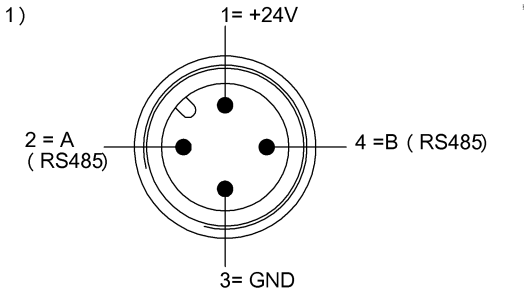
Mechanical data

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

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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					0-45	0-45	0-45	0-45	
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	X	Y	Y	X	X	Y	Y	X	
bei Abstand von									
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									

Offset in mm
at distance

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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										
Write distance in mm	0-21	0-21	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	0-36	0-36	0-15	0-15
Versatz in mm	X	Y	X	Y	X	Y	X	Y	X	Y
bei Abstand von										
0	±24	±11	±80	±36	±80	±36	±50	±26	±20	±11
5	±24	±11	±80	±36	±80	±36	±50	±26	±20	±11
10	±20	±11	±80	±36	±80	±36	±50	±26	±17	±9
13	±20	±11	±80	±36	±80	±36	±50	±26	±14	±7
15	±20	±10	±80	±36	±80	±36	±50	±26	±8	±3
20	±10	±6	±80	±36	±80	±36	±50	±26		
25	±3	±3	±75	±30	±75	±30	±40	±20		
30			±75	±30	±75	±30	±35	±17		
36			±75	±30	±75	±30	±20	±10		
40			±75	±30	±75	±30				
42			±75	±30	±75	±30				
50			±75	±30	±75	±30				
52			±55	±25	±55	±25				
60			±20	±10	±20	±10				
75										
83										
100										

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					0-30	0-30			
Data carrier metal mounting surface 40x22	0-34	0-34							
Datenträger Metall-Montagefläche ≥ 200x200			0-34	0-34			0-30	0-30	
Data carrier metal mounting surface ≥ 200x200					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	X	Y	X	Y	Y	X	Y	X	
bei Abstand von									
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									

Offset in mm
at distance

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passende Datenträger Appropriate data carriers	BIS M-155-20/A		BIS M-155-20/A		BIS M-156-20/A		BIS M-156-20/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					0-45	0-45			
Data carrier metal mounting surface 40x22	0-45	0-45							
Datenträger Metall-Montagefläche ≥ 200x200			0-45	0-45			0-45	0-45	
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	X	Y	X	Y	Y	X	Y	X	
bei Abstand von 0	±58	±24	±58	±24	±55	±24	±48	±20	
5	±58	±24	±58	±24	±55	±24	±48	±20	
Offset in mm 10	±58	±24	±58	±24	±55	±24	±48	±20	
at distance 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									

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passende Datenträger Appropriate data carriers	BIS M-191-02/A					
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	0-25	0-25				
Leseabstand in mm Read distance in mm	0-25	0-25				
Versatz in mm	X	Y				
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						

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