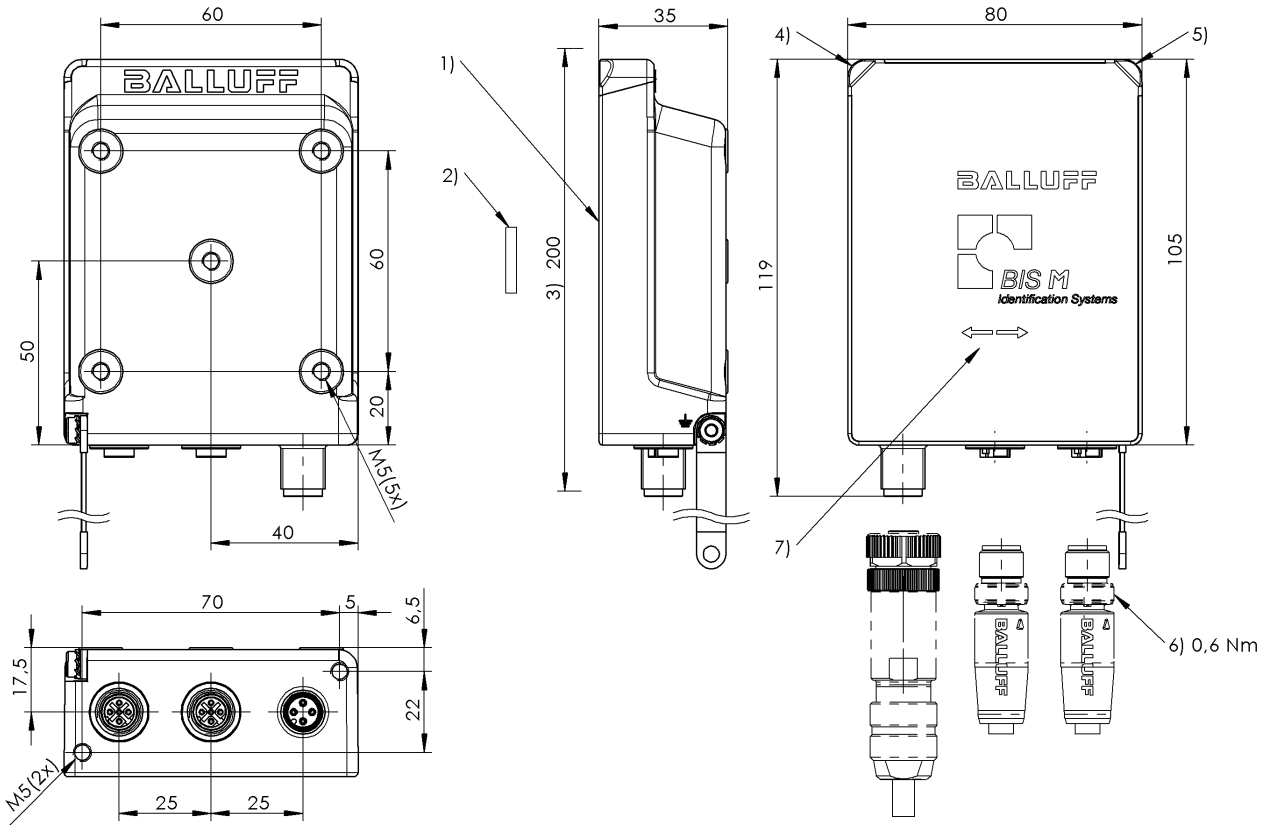


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1) Sensing surface 2) Data carrier 3) Clear zone 4) LED (Power) 5) LED (CP) 6) Tightening torque 7) Read/write axis



Display/Operation

Function indicator	CP (Code tag present), LED yellow Link Port 1, LED green Link Port 2, LED green Activity Port 1, LED yellow Activity Port 2, LED yellow Power, LED green Network Status, LED green/red Module Status, LED green/red
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Electrical connection

Connection (COM 1)	Port 1: M12x1-Female, 4-pole, D-coded
Connection (COM 2)	Port 2: M12x1-Female, 4-pole, D-coded
Connection (supply voltage IN)	M12x1-Male, 4-pole

Electrical data

Current consumption max. at 24 V DC	150 mA
Nominal voltage	24 VDC
Operating voltage U_b	24 V DC LPS Class 2
Residual ripple max.	10 %

Environmental conditions

Ambient temperature	0...70 °C
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
Protection degree	IP67 with connector
Storage temperature	-20...85 °C

Functional safety

MTTF (40 °C)	68 a
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General data

Antenna type	Rod
Approval/Conformity	CE

Material

Housing material	Zinc, die-cast
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Mechanical data

Application weight	480.00 g
Dimension	80 x 35 x 119 mm
Installation	flush (in steel)

Output/Interface

Interface	EtherNet/IP EtherNet/IP 2 port Switch
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Remarks

Only for data carriers acc. to ISO 15693.

For basic equipment: Accessories see www.balluff.com

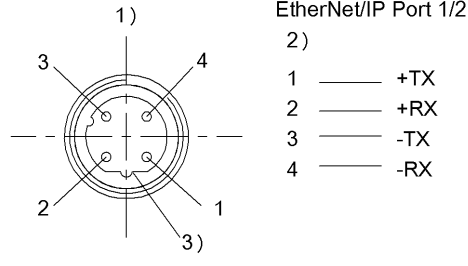
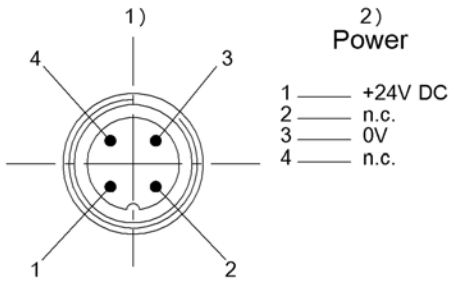
When installing, the technical standards and regulations of the corresponding countries must be observed.

Values are under rated conditions unless otherwise specified.

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 view



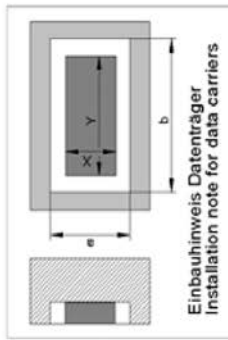
HF (13.56 MHz)

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BIS M-4006-002

	BIS M-150-02/A	BIS M-151-02/A	BIS M-150-02/A	BIS M-151-02/A
passende Datenträger Appropriate data carriers				
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	0-65 0-65	0-65 0-65		
Datenträger Metall-Montagefläche ≥ 200x200 Data carrier metal mounting surface ≥ 200x200			0-60 0-60	0-45 0-45
Schreibabstand in mm Write distance in mm	0-65 0-65	0-65 0-65	0-60 0-60	0-45 0-45
Lesebestand in mm Read distance in mm	0-65 0-65	0-65 0-65	0-60 0-60	0-45 0-45
Versatz in mm bei Abstand von	X Y	Y X	X Y	Y X
	0 ±70 ±30	±70 ±30	±65 ±30	±50 ±25
	5 ±70 ±30	±70 ±30	±65 ±30	±50 ±25
	10 ±70 ±30	±70 ±30	±65 ±30	±50 ±25
	15 ±70 ±30	±70 ±30	±65 ±30	±50 ±25
	20 ±70 ±30	±70 ±30	±65 ±30	±50 ±25
	25 ±65 ±25	±65 ±25	±60 ±25	±40 ±20
	30 ±65 ±25	±65 ±25	±60 ±25	±40 ±20
	35 ±65 ±25	±65 ±25	±60 ±25	±40 ±20
	40 ±65 ±25	±65 ±25	±60 ±25	±40 ±20
	45 ±40 ±20	±40 ±20	±40 ±20	±30 ±15
	50 ±40 ±20	±40 ±20	±40 ±20	±5 ±5
	55 ±40 ±20	±40 ±20	±40 ±20	
	60 ±40 ±20	±40 ±20	±20 ±10	
	65 ±20 ±10	±20 ±10		
	70			
	75			
	80			



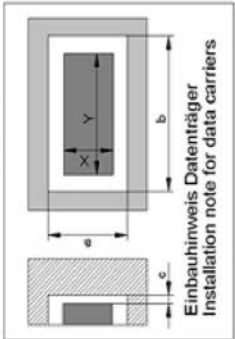
HF (13.56 MHz)

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BIS M-4006-002

	BIS M-152-03/A				
passende Datenträger					
Appropriate data carriers					
Freizone Datenträger in mm (a)	>200	>200			
Data carrier clear zone in mm					
Freizone Datenträger in mm (b)	>200	>200			
Data carrier clear zone in mm					
Freizone Datenträger in mm (c)	>50	>50			
Data carrier clear zone in mm					
Schreibabstand in mm	0-35	0-35			
Write distance in mm					
Lesabstand in mm	0-35	0-35			
Read distance in mm					
Versatz in mm	X	Y			
bei Abstand von	0	±44	±22		
	5	±44	±22		
	10	±44	±22		
	15	±40	±20		
	20	±40	±20		
	25	±32	±18		
	30	±32	±18		
	35	±10	±3		
	40				
	45				
	50				
	55				
	60				
	80				
	95				
	100				
	110				



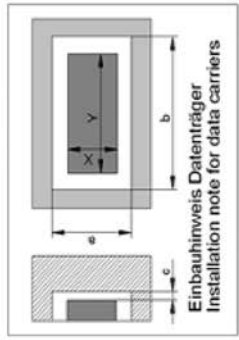
HF (13.56 MHz)

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BIS M-4006-002

	BIS M-153-02/A	BIS M-153-02/A	BIS M-153-1x/A	BIS M-153-20/A	BIS M-153-20/A
passende Datenträger					
Appropriate data carriers					
Freizone Datenträger in mm (a)	>240 >240	>240 >240	>240 >240	>240 >240	>240 >240
Data carrier clear zone in mm (a)					
Freizone Datenträger in mm (b)	>480 >480	>480 >480	>480 >480	>480 >480	>480 >480
Data carrier clear zone in mm (b)					
Freizone Datenträger in mm (c)	>50 >50	>50 >50	>50 >50	>50 >50	>50 >50
Data carrier clear zone in mm (c)					
Schreibabstand in mm	0-100 0-100	0-100 0-100	0-55 0-55	5-75 5-75	5-75 5-75
Write distance in mm					
Leseabstand in mm	0-100 0-100	0-100 0-100	0-55 0-55	5-75 5-75	5-75 5-75
Read distance in mm					
Versatz in mm bei Abstand von	X Y	X Y	X Y	X Y	X Y
Offset in mm at distance	0 ±100 ±40	±100 ±40	±65 ±30	±80 ±35	±80 ±35
	5 ±100 ±40	±100 ±40	±65 ±30	±80 ±35	±80 ±35
	10 ±100 ±40	±100 ±40	±65 ±30	±80 ±35	±80 ±35
	20 ±100 ±40	±100 ±40	±65 ±30	±80 ±35	±80 ±35
	25 ±100 ±40	±100 ±40	±60 ±25	±70 ±30	±70 ±30
	30 ±100 ±40	±100 ±40	±60 ±25	±70 ±30	±70 ±30
	40 ±100 ±40	±100 ±40	±60 ±25	±70 ±30	±70 ±30
	50 ±80 ±35	±80 ±35	±30 ±20	±70 ±30	±70 ±30
	55 ±80 ±35	±80 ±35	±20 ±10	±40 ±25	±40 ±25
	60 ±80 ±35	±80 ±35		±40 ±25	±40 ±25
	70 ±80 ±35	±80 ±35		±40 ±25	±40 ±25
	75 ±80 ±35	±80 ±35		±15 ±10	±15 ±10
	80 ±80 ±35	±80 ±35			
	95 ±55 ±25	±55 ±25			
	100 ±30 ±10	±30 ±10			
	110				
	120				



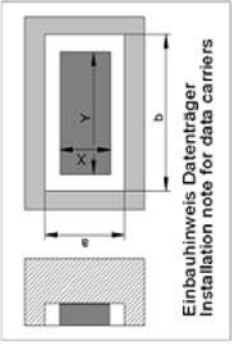
HF (13.56 MHz)

BIS M-4006-034-002-ST4

Ordercode: BIS018C

BIS M-4006-002

	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 Data carrier metal mounting surface 40x22	0-42	0-42	0-42	0-42
Datenträger Metall-Montagefläche ≥ 200x200 Data carrier metal mounting surface ≥ 200x200	0-42	0-42	0-42	0-42
Schreibabstand in mm Write distance in mm	0-42	0-42	0-42	0-42
Lesabstand in mm Read distance in mm	0-42	0-42	0-42	0-42
Versatz in mm bei Abstand von at distance	X ±45	Y ±25	X ±45	Y ±25
	5 ±45	±25	Y ±45	X ±25
	10 ±45	±25	±45	±25
	15 ±45	±25	±45	±25
	20 ±45	±25	±45	±25
	25 ±30	±18	±30	±18
	30 ±30	±18	±30	±18
	35 ±30	±18	±30	±18
	40 ±20	±10	±20	±10
	42 ±10	±5	±10	±5
	45			
	50			
	55			
	60			
	65			
	70			
	75			



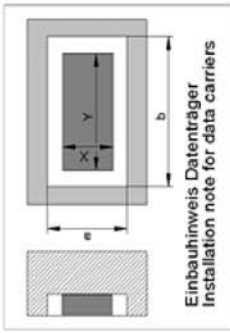
HF (13.56 MHz)

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BIS M-4006-002

	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)	>200	>200	>200	>200
Data carrier clear zone in mm	>200	>200	>200	>200
Freizone Datenträger in mm (b)	>200	>200	>200	>200
Data carrier clear zone in mm	>200	>200	>200	>200
Datenträger Metall-Montagefläche 40x22				
Data carrier metal mounting surface 40x22	0-68	0-68	0-68	0-68
Datenträger Metall-Montagefläche ≥ 200x200				
Data carrier metal mounting surface ≥ 200x200	0-68	0-68	0-68	0-68
Schreibabstand in mm				
Write distance in mm	0-68	0-68	0-68	0-68
Lesabstand in mm				
Read distance in mm	0-68	0-68	0-68	0-68
Versatz in mm bei Abstand von				
Offset in mm at distance	X Y	X Y	X Y	X Y
0	±75 ±32	±75 ±32	±75 ±32	±60 ±28
5	±75 ±32	±75 ±32	±75 ±32	±60 ±28
10	±75 ±32	±75 ±32	±75 ±32	±60 ±28
15	±75 ±32	±75 ±32	±75 ±32	±60 ±28
20	±75 ±32	±75 ±32	±75 ±32	±60 ±28
25	±70 ±28	±70 ±28	±70 ±28	±55 ±25
30	±70 ±28	±70 ±28	±70 ±28	±55 ±25
35	±70 ±28	±70 ±28	±70 ±28	±55 ±25
40	±70 ±28	±70 ±28	±70 ±28	±55 ±25
45	±50 ±25	±50 ±25	±50 ±25	±35 ±18
50	±50 ±25	±50 ±25	±50 ±25	±35 ±18
55	±50 ±25	±50 ±25	±50 ±25	±35 ±18
58	±50 ±25	±50 ±25	±50 ±25	±15 ±6
65	±50 ±25	±50 ±25	±50 ±25	
68	±20 ±10	±20 ±10	±20 ±10	
75				
80				



HF (13.56 MHz)

BIS M-4006-034-002-ST4

Ordercode: BIS018C

BIS M-4006-002

	BIS M-191-02/A	BIS M-191-02/A	BIS M-191-02/A
passende Datenträger			
Appropriate data carriers			
Freizone Datenträger in mm (a)			
Data carrier clear zone in mm	>27	>27	>27
Freizone Datenträger in mm (b)			
Data carrier clear zone in mm	>27	>27	>27
Datenträger auf Metall-Montagefläche			
Data carrier on metal mounting surface			
Montage Metallfrei			
Mounting non-metal	0-55	0-55	0-30
Schreibabstand in mm			
Write distance in mm	0-55	0-55	0-30
Lesebestand in mm			
Read distance in mm	0-55	0-55	0-30
Versatz in mm			
bei Abstand von	X	Y	X
Offset in mm	0 ±65	±28	±44
at distance	5 ±65	±28	±44
	10 ±65	±28	±44
	15 ±65	±28	±38
	20 ±65	±28	±38
	25 ±55	±25	±25
	30 ±55	±25	±8
	35 ±55	±25	
	40 ±55	±25	
	45 ±40	±20	
	50 ±40	±20	
	55 ±5	±5	
	60		
	65		
	70		
	75		

