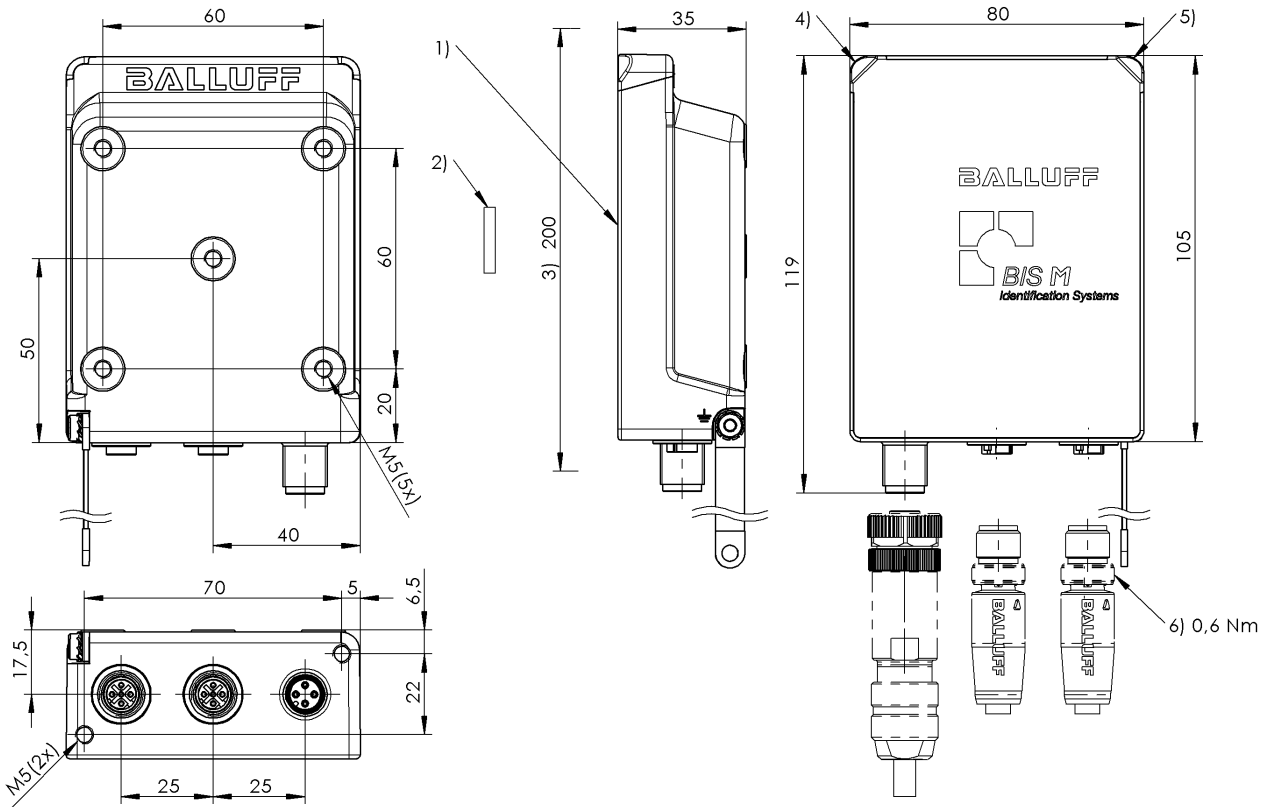


HF (13.56 MHz)  
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1) Sensing surface 2) Data carrier 3) Clear zone 4) LED (Power) 5) LED (CP) 6) Tightening torque



### 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 BUS Failure Status, LED red System Failure Status, LED red Power, LED green
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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, A-coded

### 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	Round
Approval/Conformity	CE

### Material

Housing material	Zinc, die-cast
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### Mechanical data

Application weight	410.00 g
Dimension	80 x 35 x 119 mm
Installation	flush (in steel)

### Output/Interface

Interface	Profinet I/O (IRT) Profinet I/O (IRT) 2 port Switch
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### Remarks

Only for data carriers acc. to ISO 15693.

For basic equipment: Accessories see [www.balluff.com](http://www.balluff.com)

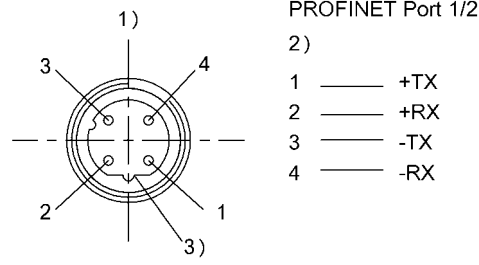
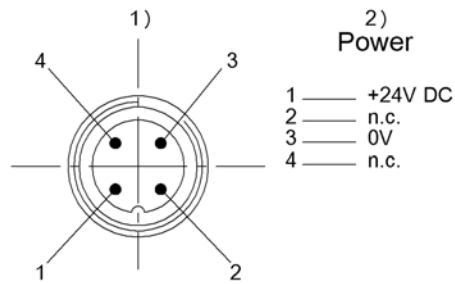
When installing, the technical standards and regulations of the corresponding countries must be observed.

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



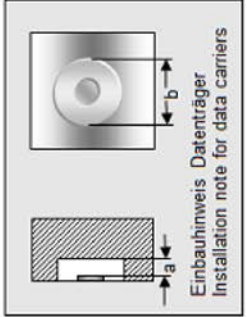
HF (13.56 MHz)

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**BIS M-4008-001**

	BIS M-108-02/L	BIS M-108-1x/A	BIS M-111-02/L	BIS M-112-02/L
passende Datenträger Appropriate data carriers				
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>50 >0	>50 >0	>50	>50
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>200 >200	>200 >200	>200	>200
Schreibabstand in mm Write distance in mm	0-52 0-32 10-19	0-36 0-28 11-18	0-52	0-80
Lesabstand in mm Read distance in mm	0-52 0-32 10-19	0-36 0-28 11-18	0-52	0-80
Versatz in mm bei Abstand von Offset in mm at distance	±32 ±25 ±32 ±25 ±32 ±25 ±20 ±32 ±22 ±20 ±25 ±20 ±18 ±32 ±22 ±15 ±25 ±20 ±15 ±32 ±22 ±15 ±25 ±20 ±2 ±32 ±22 ±8 ±25 ±20 ±2 ±32 ±22 ±8 ±25 ±20 ±28 ±15 ±22 ±15 ±28 ±15 ±22 ±1 ±28 ±10 ±5 ±28 ±28 ±12 ±6	±27 ±22 ±27 ±22 ±25 ±20 ±18 ±25 ±20 ±18 ±25 ±20 ±15 ±25 ±20 ±2 ±25 ±20 ±25 ±20 ±22 ±15 ±22 ±1 ±5 ±5	±32 ±32 ±32 ±32 ±32 ±32 ±32 ±32 ±32 ±28 ±28 ±28 ±28 ±12 ±6	±42 ±42 ±42 ±42 ±42 ±42 ±42 ±42 ±42 ±42 ±38 ±38 ±38 ±38 ±20 ±5



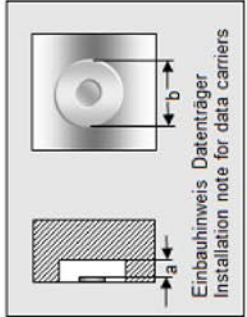
HF (13.56 MHz)

BIS M-4008-048-001-ST4

Ordercode: BIS0179

**BIS M-4008-001**

	BIS M-142-02/A BIS M-142-20/A	BIS M-142-1x/A- Mx	BIS M-143-02/A- Mx		
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm ( a ) Data carrier distance to metal in mm	>0	>0	>0		
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>100	>100	>100		
Schreibabstand in mm Write distance in mm	0-38	0-18	0-18		
Leseabstand in mm Read distance in mm	0-38	0-18	0-18		
Versatz in mm bei Abstand von Offset in mm at distance	0 5 10 15 18 20 25 30 35 38 40 45 50 55 60 65 70 75 80 85 90 95	±22 ±22 ±20 ±16 ±5	±22 ±22 ±20 ±18 ±10		





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**BIS M-4008-001**

	BIS M-136-03/L- HT				
passende Datenträger Appropriate data carriers					
Freizone Datenträger in mm ( a ) Data carrier clear zone in mm	>100				
Freizone Datenträger in mm ( b ) Data carrier clear zone in mm	>140				
Abstand Datenträger zu Metall in mm ( c ) Data carrier distance to metal in mm	>25				
Schreibabstand in mm Write distance in mm	0-95	0-95			
Leseabstand in mm Read distance in mm	0-95	0-95			
Versatz in mm bei Abstand von	X	Y			
	0 ±45 ±70				
	10 ±45 ±70				
	20 ±45 ±70				
	30 ±45 ±70				
	40 ±40 ±60				
	50 ±40 ±60				
	60 ±40 ±60				
	70 ±30 ±35				
	80 ±30 ±35				
	90 ±30 ±35				
	95 ±20 ±20				
	100				
	110				
	120				
	130				
	140				

