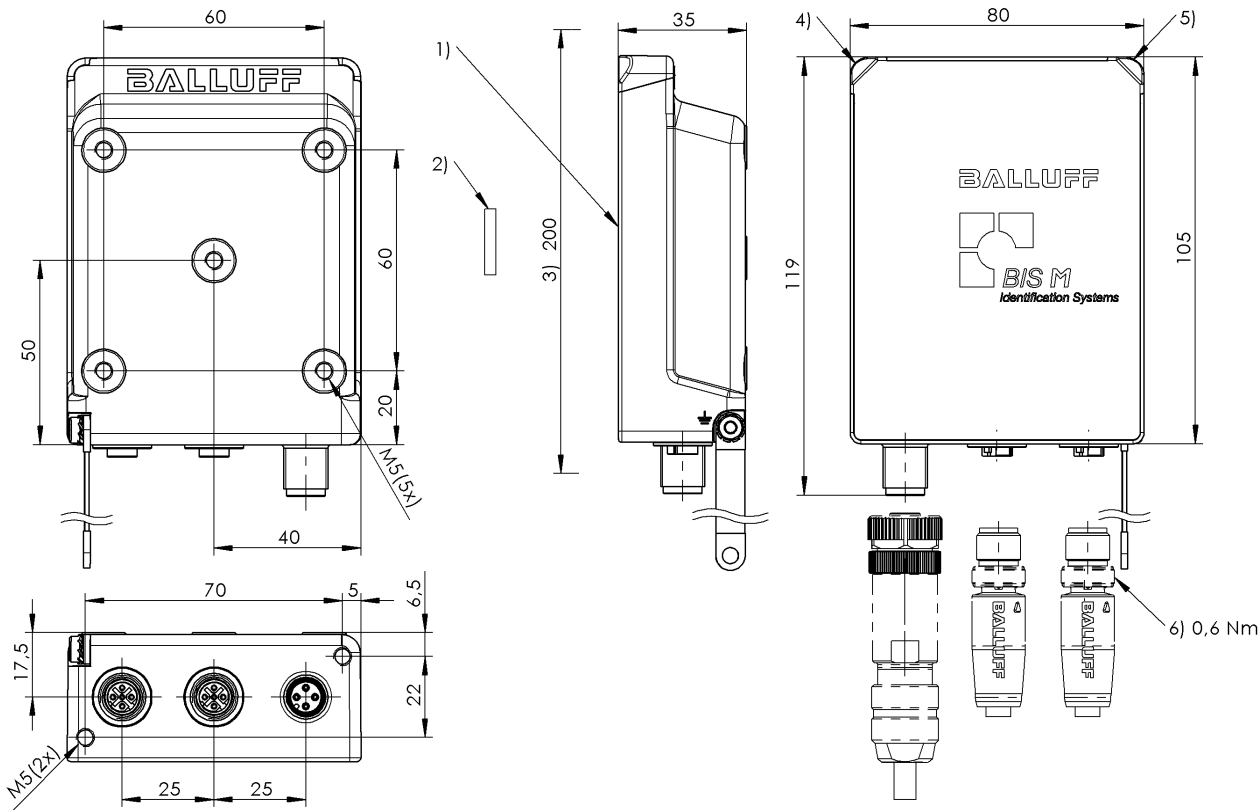




1) Sensing surface, 2) Data carrier, 3) Clear zone, 4) LED (Power), 5) LED (CP), 6) Tightening torque



Basic features

Antenna type	round
Approval/Conformity	CE WEEE EAC
Principle of operation	Read/write device

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

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
IP rating	IP67, with connector
Storage temperature	-20...85 °C

Functional Characteristics

Supported data carrier types	DIN ISO 15693 DIN ISO 15693 (High Memory)
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Functional safety

MTTF (40 °C)	68 a
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Interface

Interface	EtherNet/IP EtherNet/IP 2-port Switch
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Material

Housing material	Zinc, Die casting
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Mechanical data

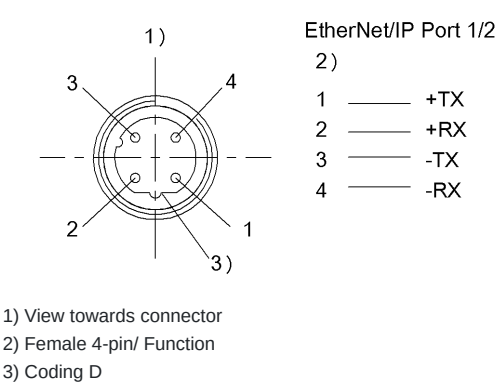
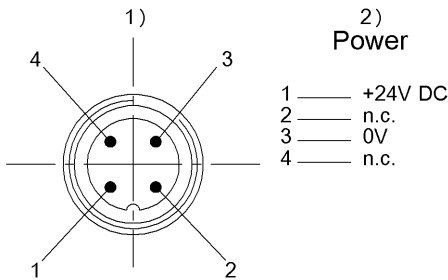
Application weight	480.00 g
Dimension	80 x 35 x 119 mm
Installation	metal-free (clear zone) on metal flush in metal

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.

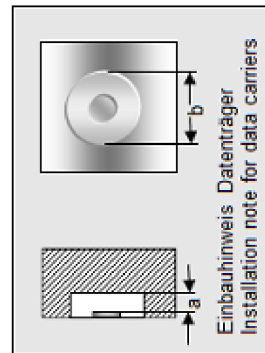
Connector Drawings



Help Views

BIS M-4006-001

passende Datenträger Appropriate data carriers	BIS M-108-02/L	BIS M-108-1x/A		BIS M-111-02/L	BIS M-112-02/L
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>50 >0 >0	>50 >0 >0		>50	>50
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>200 >200 >0	>200 >200 >0		>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
Leseabstand 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	0 ±32 ±25	±27 ±22		±32	±42
	5 ±32 ±25	±27 ±22		±32	±42
	10 ±32 ±25	±27 ±22		±32	±42
	11 ±32 ±22	±25 ±20 ±18		±32	±42
	12 ±32 ±22	±25 ±20 ±18		±32	±42
	16 ±32 ±22	±25 ±20 ±15		±32	±42
	17 ±32 ±22	±25 ±20 ±2		±32	±42
	18 ±32 ±22	±25 ±20 ±2		±32	±42
	19 ±32 ±22	±25 ±20		±32	±42
	20 ±32 ±22	±25 ±20		±32	±42
	25 ±28 ±15	±22 ±15		±28	±42
	28 ±28 ±15	±22 ±1		±28	±42
	30 ±28 ±15	±22		±28	±42
	32 ±28 ±10	±5		±28	±38
	36 ±28	±5		±28	±38
	40 ±28			±28	±38
	50 ±12			±12	±38
	52 ±6			±6	±38
	65				±38
	75				±20
	80				±5
	90				

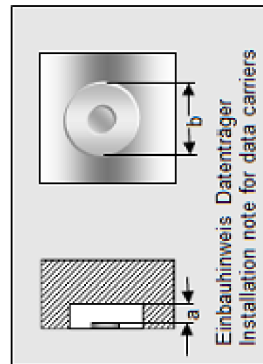


BIS M-4006-001

	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					
Freizone Datenträger in mm (b) Data carrier clear zone in mm					
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	0 ±27 5 ±27 10 ±27 15 ±25 18 ±25 20 ±25 25 ±22 30 ±22 35 ±10 38 ±10 40 45 50 55 60 65 70 75 80 85 90 95	±22 ±22 ±20 ±16 ±5	±22 ±22 ±20 ±18 ±10		
Offset in mm at distance					
Einbauhinweis Datenträger Installation note for data carriers					

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passende Datenträger Appropriate data carriers	BIS M-132-03/L- HT	BIS M-133-02/A	BIS M-135-03/L- HT	BIS M-135-07/L- HT
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>50	>50	>50	>50
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>200	>200	>200	>200
Schreibabstand in mm Write distance in mm	0-60	0-55	0-90	0-65
Leseabstand in mm Read distance in mm	0-60	0-55	0-90	0-65
Versatz in mm bei Abstand von	0 ±35	±32 ±27	±50	±36
	10 ±35	±32 ±27	±50	±36
	20 ±35	±32 ±27	±50	±36
	30 ±30	±30 ±25	±50	±33
	40 ±30	±30 ±20	±45	±33
	45 ±20	±24 ±5	±45	±25
	50 ±20	±24	±45	±25
	55 ±20	±10	±45	±25
	60 ±10		±45	±25
	65		±30	±10
	70		±30	
	75		±30	
	80		±30	
	85		±20	
	90		±20	
	100			
	110			
	120			
	130			
	140			
	150			



BIS M-4006-001

passende Datenträger Appropriate data carriers		BIS M-136-03/L-HT	
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		
Offset in mm at distance			

Einbauhinweis Datenträger
Installation note for data carriers

