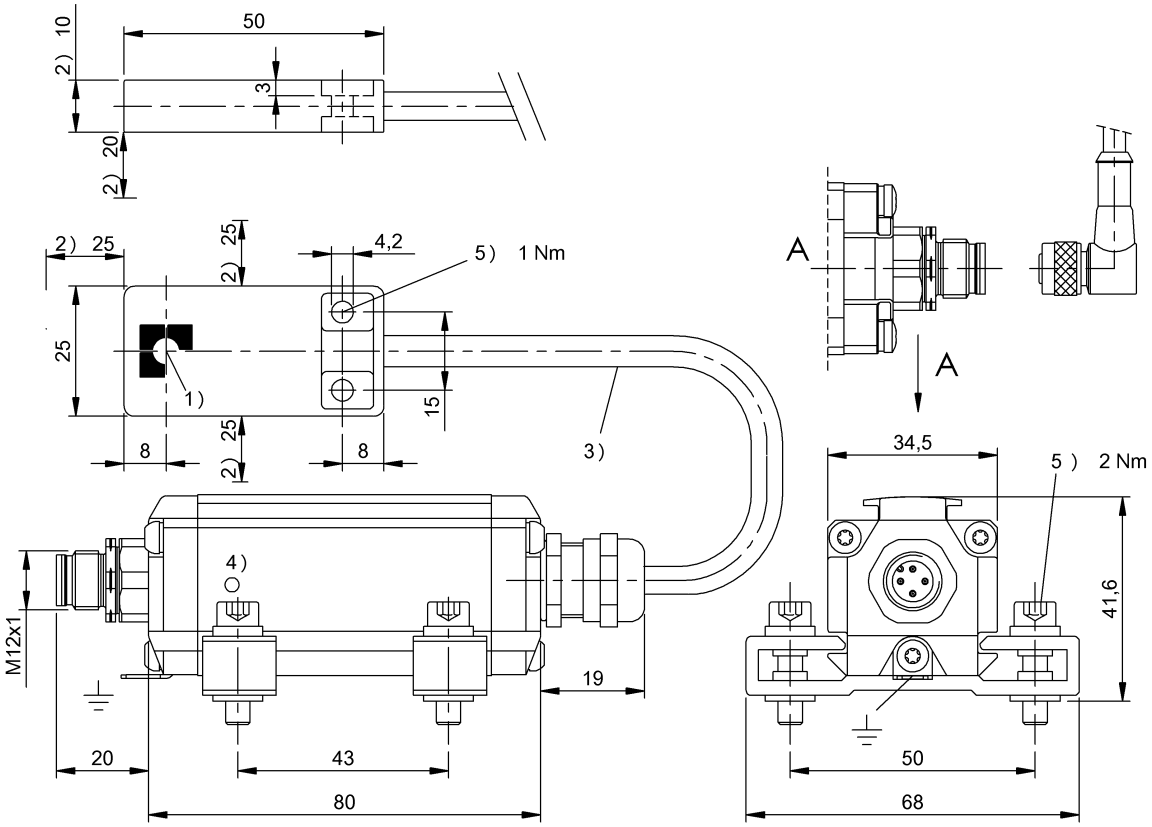
HF (13.56 MHz)

BIS M-402-045-004-07-S4
Order Code: BIS00M1



1) Sensing surface, 2) Clear zone, 3) Cable length see text, 4) LED function indicator, 5) Tightening torque

Basic features

Antenna type	round
Approval/Conformity	CE cULus WEEE
EN 55022	Size 1, Cl. A

Display/Operation

IO-Link active	Green LED, flashing
Power (ON)	Green LED

Electrical connection

Bending radius min., fixed cable	5 x D
Bending radius min., flexible cable	10 x D
Cable diameter D	5.40 mm
Cable length L	0.5 m
Cable, bending cycles min.	2 million
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Connector, 0.50 m, PU

Electrical data

Current consumption max. at 24 V DC	150 mA
EN 300330-1	Power Class 5
Operating voltage Ub	18...30 VDC Supports only LPS/ Class 2
Residual ripple max.	1.3 Vpp

Environmental conditions

Ambient temperature	0...70 °C
Cable temperature, drag chain	-25...60 °C
Cable temperature, fixed routing	-50...80 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
Protection degree	IP67
Storage temperature	-20...85 °C

BIS M-402-045-004-07-S4
Order Code: BIS00M1

Functional Characteristics

Supported data carrier types	DIN ISO 14443 DIN ISO 15693

Material

Housing material	ABS, GF16, Interface aluminum
Material jacket	PU

Mechanical data

Application weight	238.00 g
Dimension	25 x 10 x 50 mm
Installation	metal-free (clear zone)

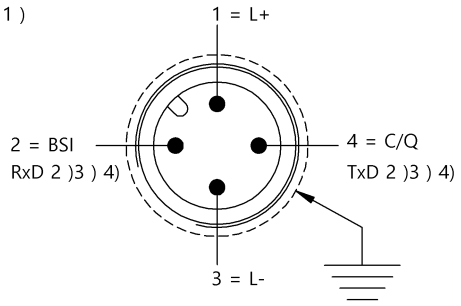
Output/Interface

IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	10 bytes

Remarks

Use included fastening clamps for installation.
For installation in metal: Observe clear zone.
Order accessories separately.
Values are under rated conditions unless otherwise specified.
When installing, the technical standards and regulations of the corresponding countries must be observed.

Connector Drawings



1) View towards connector
2) BSI service interface
3) Do not connect power
4) (Only for Balluff Service)

Help Views

BIS M-402-045-004-07-S4
Order Code: BIS00M1

BIS M-402-xxx-004-

passende Datenträger Appropriate data carriers	BIS M-143-02/A-xx					
Abstand Datenträger zu Metall in mm (**a**)						
Data carrier distance to metal in mm	>0					
Freizone Datenträger in mm (**b**)						
Data carrier clear zone in mm	>100					
Schreibabstand in mm Write distance in mm	0-9					
Leseabstand in mm Read distance in mm	0-9					
Versatz in mm bei Abstand von	0	±6				
	5	±6				
	7	±6				
Offset in mm at distance	9	±4				
	12					
	16					
	18					
	20					
	22					
	25					
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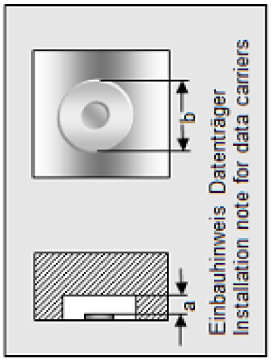
	43					
	45					
	50					
	52					
	60					
	65					
	70					



Einbauhinweis Datenträger
Installation note for data carriers

BALLUFF

BIS M-402-xxx-004-

passende Datenträger Appropriate data carriers	BIS M-105-01/A				BIS M-105-02/A				BIS M-110-02/L				BIS M-122-01/A				BIS M-122-02/A			
Abstand Datenträger zu Metall in mm (**a**)																				
Data carrier distance to metal in mm	>10	>0			>10	>0			>25	>0			>10	>0			>10	>0		
Freizone Datenträger in mm (**b**)																				
Data carrier clear zone in mm	>60	>0			>60	>0			>80	>0			>60	>0			>60	>0		
Schreibabstand in mm																				
Write distance in mm	0-6	0-4			0-8	0-6			0-15				0-5	0-4			0-8	0-5		
Leseabstand in mm																				
Read distance in mm	0-6	0-4			0-8	0-6			0-15				0-5	0-4			0-8	0-5		
Versatz in mm	0	±4	±3		±5	±4			±8				±4	±3			±4	±4		
bei Abstand von	5	±2			±5	±2			±8				±2				±4	±2		
	9								±6											
Offset in mm	12								±4											
at distance	15								±4											
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Einbauhinweis Datenträger
Installation note for data carriers