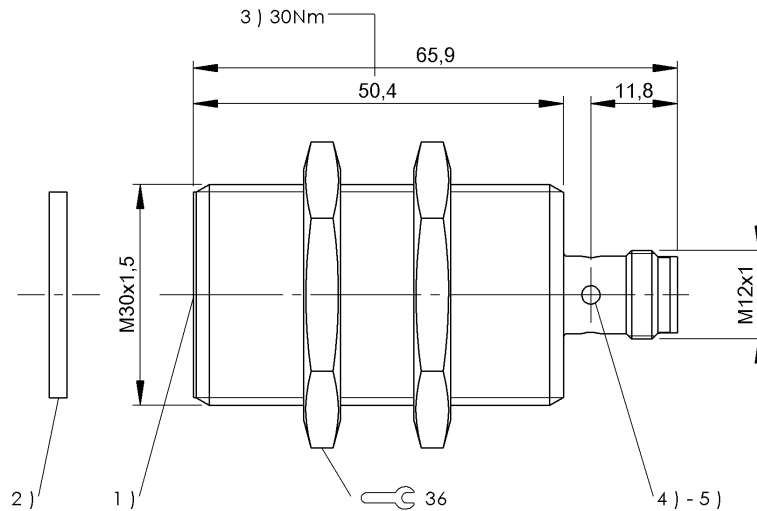




1) Sensing surface, 2) Data carrier, 3) Tightening torque, 4) LED (CP), 5) LED (Power)



Basic features

Antenna type	round
Approval/Conformity	CE FCC Part 15 IC RSS-210 EAC WEEE cULus
EN 55022	Gr. 1, Cl. A
Principle of operation	Read/write head

Display/Operation

Function indicator	Power (ON) Green LED TP (Tag Present) LED yellow
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Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
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Electrical data

Current consumption max. at 24 V DC	150 mA
EN 300330-1	Power Class 5
Operating voltage U_b	18...30 VDC Supports only LPS/ Class 2
Residual ripple max.	1.3 Vpp
Transfer rate	COM2 (38.4 kBaud)

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
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)	322 a
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Interface

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

Material

Housing material	Brass, Nickel-plated brass nuts, nickel-plated
Housing material, surface protection	nickel-plated

Mechanical data

Application weight	100.00 g
Dimension	Ø 30 x 65.9 mm

Installation

metal-free (clear zone)
on metal
flush in metal
M30x1.5

Size

Remarks

Only for data carriers acc. to ISO 15693.

For basic equipment: Accessories see www.balluff.com

Use included nuts for installation.

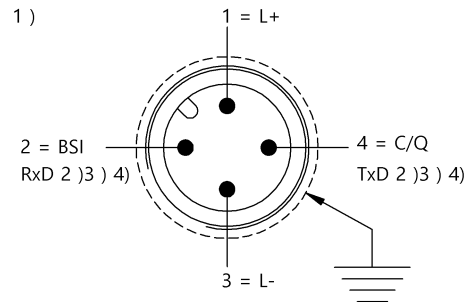
Values are under rated conditions unless otherwise specified.

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

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

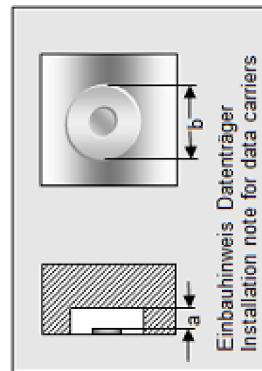


- 1) View towards connector
- 2) BSI service interface
- 3) Do not connect power
- 4) (Only for Balluff Service)

Help Views

BIS M-400-xxx-401-__

passende Datenträger Appropriate data carriers	BIS M-105-02/A	BIS M-108-02/L BIS M-108-20/L	BIS M-122-02/A	BIS M-128-03/L	
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>20	>25 >0 >0	>20	>20	
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100 >100 >0	>100	>100	
Schreibabstand in mm Write distance in mm	0-13	0-21 0-15 0-13	0-9	0-21	
Leseabstand in mm Read distance in mm	0-13	0-21 0-15 0-13	0-9	0-21	
Versatz in mm bei Abstand von	0 5 8 9 10 13 15 18 20 21 30 32 35 40 43 45 50 52 60 65 70	±8 ±8 ±8 ±7 ±7 ±4 ±13 ±13 ±13 ±13 ±12 ±12 ±11 ±5 ±5	±10 ±10 ±10 ±9 ±8 ±10 ±10 ±10 ±8 ±3	±12 ±12 ±12 ±12 ±11 ±11 ±10 ±5 ±5	
Offset in mm at distance					



BIS M-400-XXX-401-

passende Datenträger Appropriate data carriers	BIS M-110-02/L	BIS M-111-02/L	BIS M-112-02/L	BIS M-142-02/A- xx	BIS M-143-02/A- xx
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>25	>50	>0	>0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100	>150	>100	>100
Schreibabstand in mm Write distance in mm	0-18	0-21	0-30	0-18	0-13
Leseabstand in mm Read distance in mm	0-18	0-21	0-30	0-18	0-13
Versatz in mm bei Abstand von Offset in mm at distance	0 5 10 13 15 16 18 20 21 25 30 32 35 40 43 45 50 52 60 65 70	±13 ±13 ±13 ±12 ±12 ±11 ±11 ±5 ±5	±20 ±20 ±20 ±18 ±18 ±18 ±18 ±16 ±8	±9 ±9 ±9 ±8 ±8 ±5 ±5	±9 ±9 ±7 ±3

Einbauhinweis Datenträger
Installation note for data carriers