

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 UKCA cULus WEEE MIC FCC IC (Radio) KC NBTC IMDA
EN 55022	Gr. 1, Cl. A
Principle of operation	Read/write device

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 mil.
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
Operating voltage U _b	18...30 VDC Supports only LPS/ Class 2
Residual ripple max.	1.3 V _{pp}
Transfer rate	COM2 (38.4 kBaud)

Environmental conditions

Altitude max.	2000 m
Ambient temperature	0...70 °C
Area of operation	Indoor
Cable temperature, drag chain	-25...60 °C
Cable temperature, fixed routing	-50...80 °C
Contamination scale	2
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
IP rating	IP67
Relative humidity	0...90 %, non-condensing
Storage temperature	-20...85 °C

Functional Characteristics

Supported data carrier types	DIN ISO 14443 DIN ISO 15693
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IO-Link

IO-Link Profil IDs	N/A
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Interface

Interface	IO-Link 1.1
Process data IN	10 bytes

Material

Housing material	Brass, Interface aluminum, nickel-plated
Housing material, surface protection	nickel-plated
Material jacket	PU

Mechanical data

Application weight	220.00 g
Dimension	Ø 18 x 45.5 mm
Installation	metal-free (clear zone)
Size	M18x1

Remarks

For basic equipment see IO-Link catalog.

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

For installation in metal: Observe clear zone.

Order accessories separately.

Values are under rated conditions unless otherwise specified.

Use included nuts and fastening clamps for installation.

This device is intended to be supplied by a UL-listed or CSA-certified power supply unit with "Class 2" or LPS power source.

The devices must be installed permanently.

1. Determine a suitable mounting position.
2. Fasten the device with suitable mounting material.

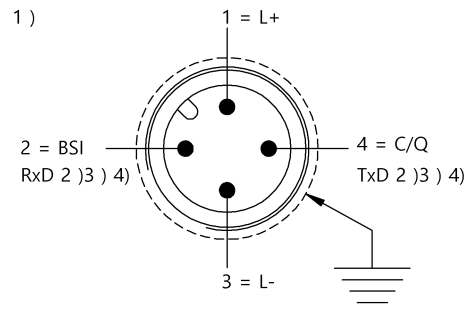
The device can be cleaned with a slightly damp cloth.

Regularly check the function of the device and all associated components through visual and functional tests.

- Shut down the device in the event of malfunctions.
- Secure the system against unauthorized use.
- Check fastening and tighten if necessary.

The product is maintenance-free.

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-XXX-002-

passende Datenträger Appropriate data carriers	BIS M-130-03/L	BIS M-130-07/L	BIS M-132-03/L- HT	BIS M-143-02/A- XX	
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>25	>25	>0	
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100	>100	>100	
Schreibabstand in mm Write distance in mm	0-9	0-9	0-20	0-9	
Leserabstand in mm Read distance in mm	0-9	0-9	0-20	0-9	
Versatz in mm bei Abstand von	±6	±6	±12	±6	
	5	±6	±12	±6	
	7	±5	±12	±6	
	9	±1	±12	±4	
	10		±12		
	15		±10		
	17		±10		
	20		±4		
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