

1) LED 4x on circumference, 2) Power/Status, 3) Tightening torque, 4) Sensing surface



Basic features

Antenna type	round
Approval/Conformity	CE UKCA FCC Part 15 IC (Radio) WEEE Ecolab cULus
Principle of operation	Read/write head
Secondary features for condition monitoring	Vibration monitoring Inclination monitoring and installation aid Internal temperature monitoring

Display/Operation

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

Electrical connection

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

Electrical data

Current consumption max. at 24 V DC	150 mA
Current consumption max. at 24 V DC without load	25 mA
Current consumption max., note	Output (Pin2) may be loaded with a maximum of 100mA
Operating voltage U_b	18...30 VDC Supports only LPS/ Class 2
Residual ripple max.	1.3 V _{pp}
Transfer rate	COM3 (230.4 kBaud)

Environmental conditions

Ambient temperature	0...70 °C
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	IP68, IP69K
Storage temperature	-20...85 °C

Functional Characteristics

Supported data carrier types	DIN ISO 15693 DIN ISO 15693 (High Memory)
-------------------------------------	---

Functional safety

MTTF (40 °C)	413.1 a
---------------------	---------

Smart Automation and Monitoring System

HF (13.56 MHz)

BIS M-4A3-082-401-07-S4

Order Code: BIS01E5

BALLUFF

IO-Link

IO-Link Profil IDs	0x0030 BLOB 0x0031 BLOB FW-Update 0x4000 Identification and Diagnosis
Supported IO-Link Profiles	Common Profile BLOB Profile FW-Update Profile

Interface

Interface	IO-Link 1.1
Process data IN	10 bytes

Material

Housing material	1.4404 stainless steel
Material sensing surface	PBT, GF30

Mechanical data

Application weight	17.00 g
Dimension	Ø 12 x 65 mm
Installation	metal-free (clear zone) on metal flush in metal
Size	M12x1

Remarks

Only for data carriers acc. to ISO 15693.

For basic equipment: Accessories see www.balluff.com

Values are under rated conditions unless otherwise specified.

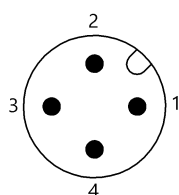
When installing, the technical standards and regulations of the corresponding countries must be observed.

Use included nuts for installation.

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) 2)

IO-Link

1 — L+ (24 V)

2 — I/Q

3 — L- (GND)

4 — C/Q