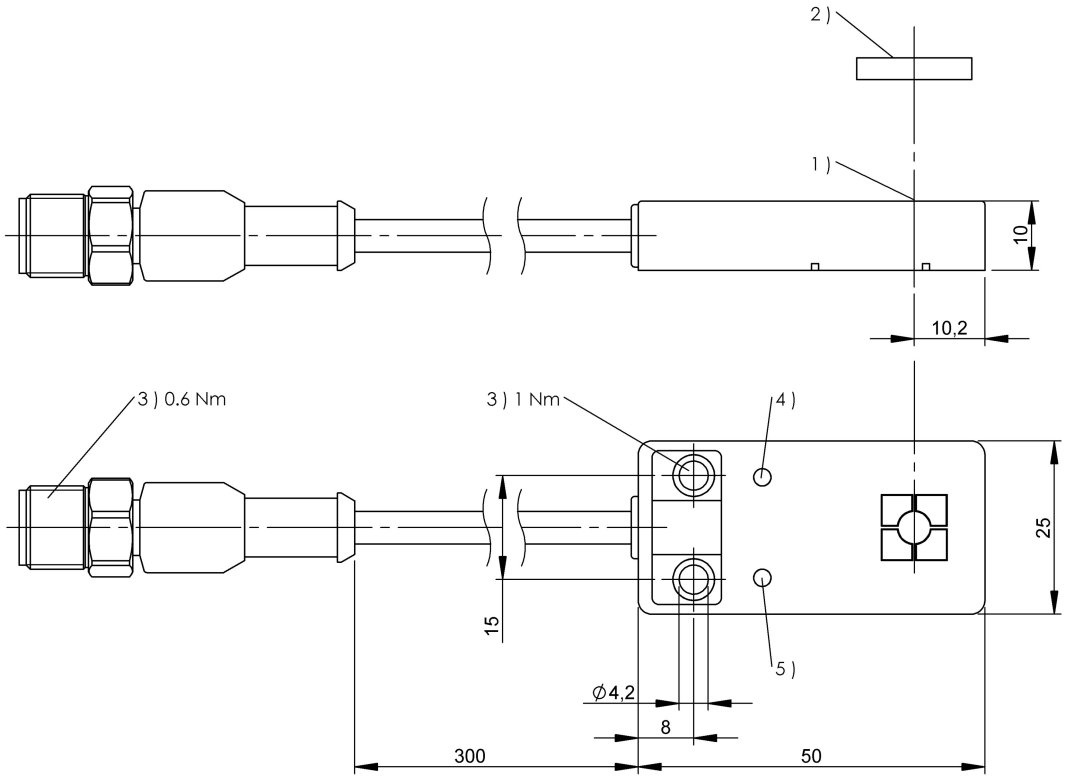
Smart Automation and Monitoring System
HF (13.56 MHz)

BIS M-4A9-082-401-07-PU1-0,3
Order Code: BIS01E2



1) Sensing surface, 2) Data carrier, 3) Tightening torque, 4) LED function indicator, 5) LED function indicator

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	40 mA
Current consumption max., note	Output (Pin2) may be loaded with a maximum of 100mA
Operating voltage Ub	18...30 VDC Supports only LPS/ Class 2
Residual ripple max.	1.3 Vpp
Transfer rate	COM3 (230.4 kBaud)

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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)	349.9 a

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	ABS, ABS-GF16

Mechanical data

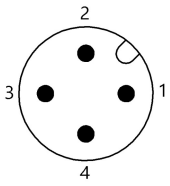
Application weight	56.00 g
Dimension	25 x 10 x 50 mm
Installation	metal-free (clear zone) on metal flush in metal

Remarks

Only for data carriers acc. to ISO 15693.
For basic equipment: Accessories see www.balluff.com
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) 2)

IO-Link

1 — L+ (24 V)
2 — I/Q
3 — L− (GND)
4 — C/Q