

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



Basic features

Antenna type	Planar
Approval/Conformity	FCC Part 15 IC (Radio) WEEE Ecolab cULus
Principle of operation	Read/write head
Radio license	USA Canada
Secondary features for condition monitoring	Vibration monitoring Inclination monitoring and installation aid Internal temperature monitoring Internal humidity detection
Standards	EPCglobal™ Class 1, Gen 2 ISO 18000-6C

Display/Operation

Function indicator	Status, LED red RF active, LED blue Power, LED green 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	350 mA
Current consumption max. at 24 V DC without load	200 mA
Front-to-back ratio	typ. 2 dB
Multi-Tag capable	yes
Nominal voltage	24 VDC
Operating voltage U_b	18...30 VDC LPS Class 2
Output power adjustable	-7 dBm...+18 dBm (0.2 mW...64 mW)
Polarization	circular
Residual ripple max.	1.3 Vpp
Working frequency	902...928 MHz

Environmental conditions

Ambient temperature	0...70 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-6, Vibration	yes
IP rating	IP68, IP69K, with connector
Storage temperature	-20...85 °C

Functional safety

MTTF (40 °C)	156.2 a
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Smart Automation and Monitoring System

UHF (860...960 MHz)

BIS U-4A7-082-11C-07-S4

Order Code: BIS01E8

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

IO-Link version	1.1
Interface	IO-Link 1.1

Material

Housing material	1.4404 stainless steel
Material sensing surface	PBT, GF30

Mechanical data

Application weight	65.00 g
Dimension	Ø 30 x 98 mm
Installation	metal-free (clear zone)
Size	M30x1.5

Range/Distance

Axial ratio	typ. 1,5 dB
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Remarks

For use only in USA and Canada.

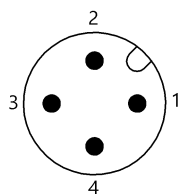
When installing, the technical standards and regulations of the corresponding countries must be observed.

Values are under rated conditions unless otherwise specified.

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