

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



Basic features

Antenna type	Planar
Approval/Conformity	CE UKCA WEEE Ecolab cULus
Principle of operation	Read/write head
Radio license	Europe (CE) United Kingdom (UKCA)
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
EN 61000-4-2/3/4/5/6	Severity level 2B/2A/2A/-/2A
Front-to-back ratio	typ. 3 dB
Multi-Tag capable	yes
Nominal voltage	24 VDC
Operating voltage Ub	18...30 VDC LPS Class 2
Output power adjustable	-9 dBm...+16 dBm (0.13 mW...40 mW)
Polarization	circular
Residual ripple max.	1.3 Vpp
Working frequency	865...868 MHz

Environmental conditions

Ambient temperature	0...70 °C
Area of operation	Indoor
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)	156.5 a
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IO-Link

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

Interface

IO-Link version	1.1
Interface 01	IO-Link
Interface 01, protocol version	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

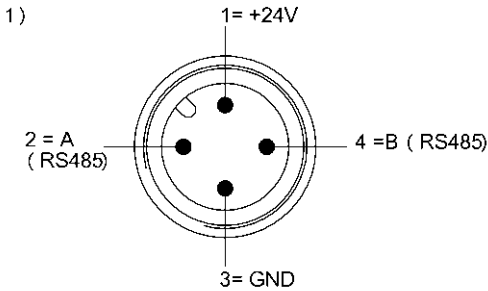
Axial ratio	typ. 1 dB
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Remarks

Use permitted only in EU member countries.  
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) View towards connector