

Basic features

Approval/Conformity	CE UKCA WEEE
Component	Base
Function	Uni IO-Link
Use	for inductive coupler remote BIC005C

Display/Operation

Active transmission indicator	yes
Function indicator	yes
InZone indicator	yes
Power indicator	yes

Electrical connection

Connection	M12x1-Male, 4-pin
Short-circuit protection	yes

Electrical data

Rated operating current I_e	1000 mA
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	10 %
Signal type	unidirectional
Transmission power	12 W
Type of master port	A

Environmental conditions

Ambient temperature	-5...55 °C
IP rating	IP67
Interference immunity	EN 61000-4-2/3/4/5/6
Storage temperature	-25...70 °C

Functional safety

MTTF (40 °C)	181 a
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IO-Link

IO-Link Profil IDs	N/A
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Inductive Couplers
BIC 1I0-I2A50-Q40KFU-SM4A4A
Order Code: BIC005A

BALLUFF

Interface

Cycle time min.	3 ms
Frame type	1
IO-Link version	1
Interface	IO-Link 1.0
Process data IN	4 bytes
Process data OUT	0 bytes
Process data cycle min.	12 ms
SIO mode	no
Transfer rate	COM2 (38.4 kBaud)

Material

Housing material	PBT
Material sensing surface	PBTP

Remarks

For additional information, refer to user's guide.
Order accessories separately.
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.

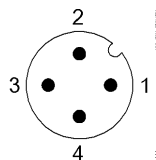
Mechanical data

Dimension	40 x 40 x 63 mm
Installation	non-flush
Offset	±5 mm
Tightening torque max.	40 Nm
Tightening torque pigtail	0.6 Nm
Weight	150 g

Range/Distance

Range	0...5 mm
Transmission distance	0...5 mm

Connector Drawings



IO-Link

PIN 1: +24V

PIN 2: not used

PIN 3: GND

PIN 4: C/Q, IO-Link DC-Channel