

## Basic features

Approval/Conformity	CE UKCA WEEE cULus
Scope of delivery	Part label (12x) Port cover M12 (4x) Short guide
Style	Two-row

## Display/Operation

Actuator supply UA, indicator	Green LED
IO-Link communication indicator	Green LED
Module supply indicator	Green LED
Sensor supply US indicator	Green LED
Switching function display	LED yellow

## Electrical connection

Connection (COM 1)	M12x1-Male, 4-pin, A-coded
Connection slots	8x M12x1-Female, 5-pin, A-coded

## Electrical data

Configurable inputs/outputs	yes
Current consumption without load, max.	65 mA
Current sum UA, actuator	4 A
Current sum US, sensor	4 A
IO-Link function	Device
IO-Link ports, number	1
Operating voltage $U_b$	18...30.2 VDC
Rated operating voltage $U_e$ DC	24 V
Switching current	16x 350 mA

## Environmental conditions

Ambient temperature	-20...70 °C
Ambient temperature UL max.	50 °C
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

## Functional safety

MTTF (40 °C)	58.5 a
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## IO-Link

IO-Link Profil IDs	N/A
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## Interface

Cycle time min.	3.5 ms
Digital inputs	16x PNP, Type 3
Digital outputs	16x PNP
Extension port	yes
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	2 bytes
Process data OUT	2 bytes
Process data cycle min.	3.5 ms
Transfer rate	COM2 (38.4 kBaud)

## Material

Gasket, material	FKM 75
Housing material	PA, Transparent
Housing shield	no

I/O modules  
BNI IOL-302-002-K006  
Order Code: BNI007Z

# BALLUFF

## Mechanical data

Dimension 50 x 30.8 x 115 mm

Mounting ground strap

M5 screw with spring washer

Mounting part

3-hole screw mount

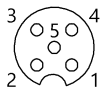
## Remarks

See short guide

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



Digital In-/Output Port

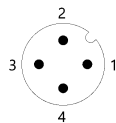
PIN 1: +24V

PIN 2: Input/Output 2

PIN 3: 0V / GND

PIN 4: Input/Output 1

PIN 5: Function ground



IO-Link

PIN 1: +24V, Controller

PIN 2: +24V, Actuators

PIN 3: GND, reference potential

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