

Basic features

Approval/Conformity	CE UKCA cULus WEEE
Scope of delivery	Part label (20x) Port cover M12 (4x) Grounding strap Lock washer Short guide M4x6 screw
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 (supply voltage IN)	7/8"-Male, 5-pin
Connection slots	8x M12x1-Female, 5-pin, A-coded
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

Electrical data

Configurable inputs/outputs	yes
Current consumption without load, max.	90 mA
Current sum UA, actuator	9.0 A
Current sum US, sensor	9.0 A
IO-Link function	Device
IO-Link ports, number	1
Operating voltage Ub	18...30.2 VDC
Rated operating voltage Ue DC	24 V
Switching current	16x 2 A

I/O modules

BNI IOL-302-000-Z013

Order Code: BNI0035

BALLUFF

Environmental conditions

Ambient temperature	-5...70 °C
EN 60068-2-6, Vibration	61...500 Hz, constant acceleration 15 g 5...61 Hz, constant amplitude 1 mm
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

Functional safety

MTTF (40 °C)	63 a
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Interface

Cycle time min.	3 ms
Digital inputs	16x PNP, Type 2
Digital outputs	16x PNP
IO-Link version	1
Interface	IO-Link 1.0
Process data IN	2 bytes
Process data OUT	2 bytes
Process data cycle min.	12 ms
Transfer rate	COM2 (38.4 kBaud)

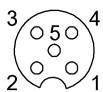
Remarks

See short guide

For more information about MTTF and B10d see MTTF / B10d Certificate

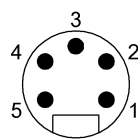
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



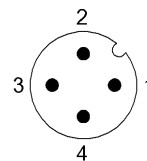
I/O ports

PIN 1: +24V, 300mA
PIN 2: Input/Output 2
PIN 3: GND
PIN 4: Input/Output 1
PIN 5: Function ground



Power IN

PIN 1: GND, reference potential
PIN 2: GND, reference potential
PIN 3: Function ground
PIN 4: +24V, US
PIN 5: +24V, UA



IO-Link

PIN 1: +24V
PIN 2: not used
PIN 3: GND
PIN 4: C/Q, IO-Link DC-Channel

Material

Gasket, material	FKM 75
Housing material	Zinc, Die casting
Housing shield	yes
Surface protection	Cu 15 µm Ni 15 µm

Mechanical data

Dimension	68 x 32.4 x 181.5 mm
Mounting ground strap	M4 internal thread
Mounting part	2-hole screw mount