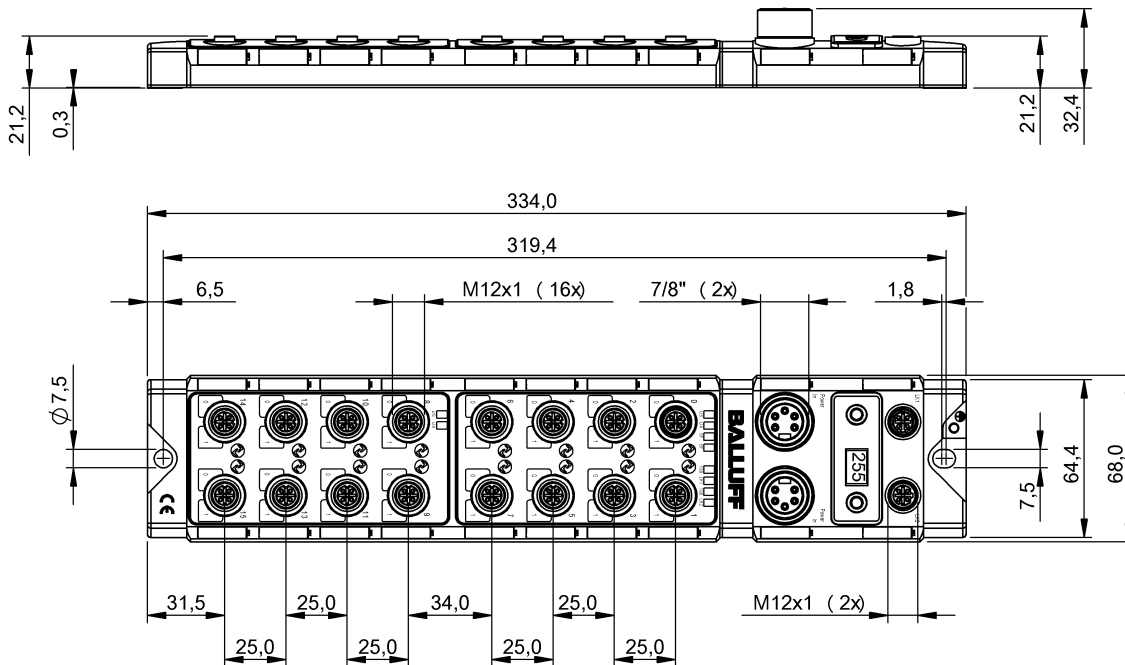


BNI PNT-509-105-Z033  
BNI007M



## Display/Operation

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

## Electrical connection

Connection (COM 1)	M12x1-Female, 4-pole, D-coded
Connection (COM 2)	M12x1-Female, 4-pole, D-coded
Connection (supply voltage IN)	7/8"-Connector, 5-pole
Connection (supply voltage OUT)	7/8"-Connector, 5-pole
Connection slots	16x M12x1-Female, 5-pole, A-coded
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

## Electrical data

Address range	IPV4
Configurable inputs/outputs	yes
Current sum UA, actuator	9.0 A
Current sum US, sensor	9.0 A
IO-Link function	Master

Operating voltage Ub	18...30.2 VDC
Output current max.	2 A
Rated operating voltage Ue DC	24 V
Transfer rate	10...100 Mbit/s

## 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
Protection type IEC 60529	IP67 when threaded in
Storage temperature	-25...70 °C

## General data

Approval/Conformity	UL Listed CE
Scope of delivery	Part label (20x) Blind plugs M12 (4x) Ground strap Lock washer Short guide M4x6 screw
Style	Two-row

## BNI PNT-509-105-Z033 BNI007M

### Material

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

### Mechanical data

Dimension	68 x 37.9 x 334 mm
Fastening detail	2-hole screw mount
Mounting ground strap	M4

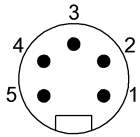
### Output/Interface

Auxiliary interfaces	16x IO-Link
Auxiliary interfaces, number	16x IO-Link
Digital inputs	32x PNP, Type 2
Digital outputs	32x PNP
Interface	Profinet I/O
IO-Link version	1.1

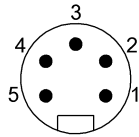
### Remarks

Installation instructions	See short guide
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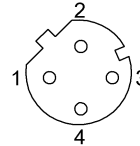
### Connector view



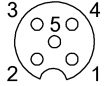
PIN 1: 0V PIN 2: 0V PIN 3: Function ground PIN 4: Sensor/Bus supply P0-7 PIN 5: Sensor supply P8-15 Power In US



PIN 1: 0V PIN 2: 0V PIN 3: Function ground PIN 4: Actuator supply P0-7 PIN 5: Actuator supply P8-15 Power In UA



PIN 1: TD+ PIN 2: RD+ PIN 3: TD- PIN 4: RD- Profinet Port



IO-Link PIN 1: +24V, 1.6A PIN 2: In-/output/ Diagnostics PIN 3: 0V PIN 4: IO-Link/In-/output PIN 5: n.c.