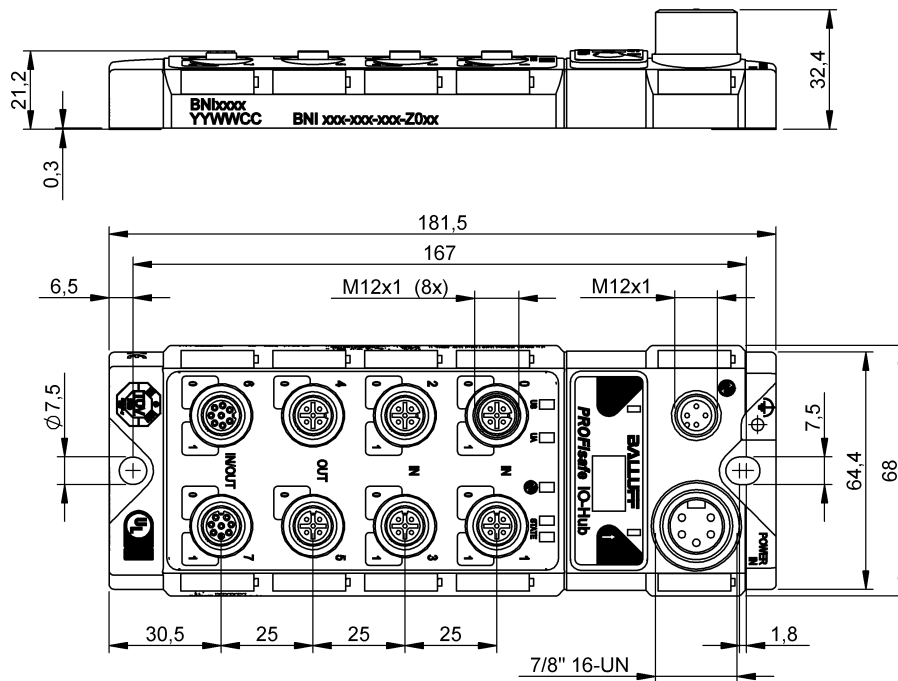


50X90002.01.DRW



### Basic features

<b>Approval/Conformity</b>	CE TÜV IO-Link cULus WEEE
<b>Scope of delivery</b>	Safety I/O module Part label (20x) Port cover M12 (4x) Grounding strap Lock washer M4x6 screw Short guide

### Electrical connection

<b>Connection (COM 1)</b>	M12x1-Male, 4-pin, A-coded
<b>Connection (supply voltage IN)</b>	7/8"-Male, 5-pin
<b>Connection slots</b>	2x M12x1-Female, 8-pin, A-coded 6x M12x1-Female, 5-pin, A-coded

### Electrical data

<b>Burst</b>	3A/4DS
<b>ESD</b>	4A
<b>Operating voltage <math>U_b</math></b>	19.2...30 VDC
<b>Output current max.</b>	2 A
<b>Total current max.</b>	12.8 A

### Environmental conditions

<b>Ambient temperature</b>	-5...55 °C
<b>EN 60068-2-27, Shock</b>	100 g, 6 ms
<b>EN 60068-2-6, Vibration</b>	15 g, 10...500 Hz
<b>Protection degree</b>	IP67 when threaded in
<b>Storage temperature</b>	-25...70 °C

## Functional safety

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Device type (VDMA 66413)	1
HFT - Hardware failure tolerance (EN 62061)	1
MTTFd	1000 a
Mission Time	20 a
PFHd (EN 62061)	8 E-10 1/h
Performance Level	e
SIL (IEC 61508)	3
SIL CL (EN 62061)	3
Safety category (EN ISO 13849-1)	4
Type of the subsystem (EN/IEC 61508-2)	B

## Material

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Housing material	Zinc, Die casting, nickel plated
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## Remarks

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see Manual

## Mechanical data

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Dimension	68 x 32.4 x 181.5 mm
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## Output/Interface

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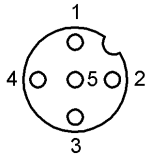
Digital inputs	14x PNP, Type 3
Digital outputs	2x PP/PM 2x PNP
Interface	PROFIsafe over IO-Link 1.1
Number of safe inputs	12
Number of safe outputs	2
Transfer rate	COM2 (38.4 kBaud)

## Range/Distance

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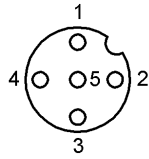
Response time max.	20 ms
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**Connector Drawings**



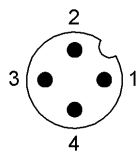
Safe outputs

- PIN 1: n.c.
- PIN 2: n.c.
- PIN 3: UA: 0 V actuator voltage
- PIN 4: F-DO 1: +24 V, ≤2 A
- PIN 5: Function ground



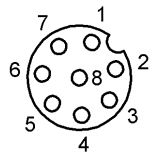
Safe inputs

- PIN 1: U1/TPO1: +24 V, ≤500 mA
- PIN 2: F-DI 2/SIn2
- PIN 3: 0V / GND
- PIN 4: F-DI 1/SIn1
- PIN 5: U2/TPO2: +24 V, ≤200 mA



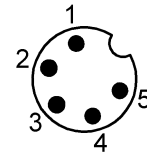
IO-Link port

- PIN 1: +24 V IO-Link
- PIN 2: n.c.
- PIN 3: 0 V IO-Link (GND)
- PIN 4: C/Q, IO-Link DC-Channel



Multi-function ports

- PIN 1: U2/TPO2: +24 V, ≤200 mA
- PIN 2: US: +24 V, ≤500 mA
- PIN 3: F-DI 1/SIn1
- PIN 4: F-DI 2/SIn2
- PIN 5: DI 3
- PIN 6: U1/TPO1: +24 V, ≤200 mA
- PIN 7: 0V / GND
- PIN 8: DO 1: +24 V, ≤2 A



Power Supplies

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