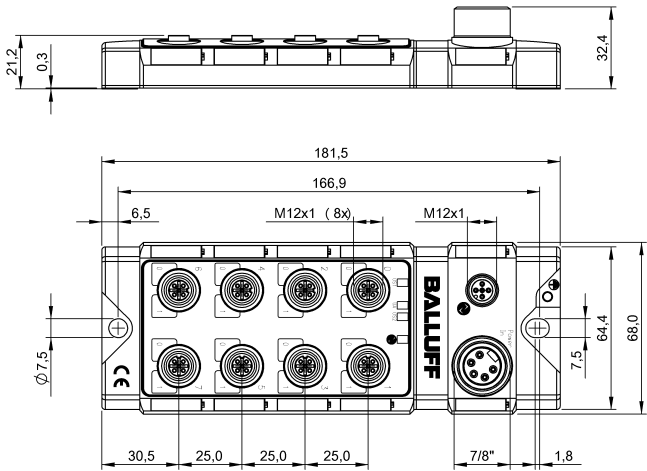


**BNI IOL-302-000-Z013**  
**Ordering code: BNI0035**

IO-Link module

**BALLUFF**

sensors worldwide



**Characteristic data**

|                                 |                 |
|---------------------------------|-----------------|
| Design                          | Two-row         |
| Number of plug-in positions     | 8               |
| Configurable inputs/outputs     | Yes             |
| Switching function indicator    | Yes, LED yellow |
| Actuator supply UA indicator    | Yes, LED green  |
| Sensor supply US indicator      | Yes, LED green  |
| IO-Link communication indicator | Yes, LED green  |

**Electrical data**

|                               |                          |
|-------------------------------|--------------------------|
| Operating voltage UB min. DC  | 18 V                     |
| Operating voltage UB max. DC  | 30.2 V                   |
| Current sum US (Sensor)       | 9 A                      |
| Rated operating voltage Ue DC | 24                       |
| Transfer rate                 | COM2 (38.4 kBaud)        |
| Indicator module supply       | Yes, LED green           |
| Cyclic time                   | 3 ms                     |
| Process data cycle            | 12 ms at cycle time min. |
| Frame type                    | 1                        |
| Inputs                        | PNP, Type 2              |

**Mechanical data**

|                |                       |
|----------------|-----------------------|
| Mounting type  | 2-hole screw mounting |
| Housing shield | Yes                   |

|                             |                             |
|-----------------------------|-----------------------------|
| Ambient temperature Ta min. | -5 °C                       |
| Ambient temperature Ta max. | 70 °C                       |
| Storage temperature min.    | -25 °C                      |
| Storage temperature max.    | 70 °C                       |
| Sealing ring material       | FKM 75 (Viton)              |
| Housing material            | GD-ZnAl4Cu1 (die-cast zinc) |
| Surface protection          | Cu 15µ / Ni 15µ             |
| Contact surface protection  | 2µm Ni / 0.4µm AU           |
| Casting compound            | UL V-0                      |

**Basic data**

|                                       |                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------|
| Degree of protection as per IEC 60529 | IP67 (when connected)                                                              |
| Vibration rating                      | 5-61 Hz, const. amplitude 1 mm<br>61-500 Hz, const. accel. 15 gn                   |
| Approvals                             | CE                                                                                 |
| Scope of delivery                     | 20x labels<br>4x plugs M12<br>Circlip<br>Short guide<br>Ground strap<br>Screw M4x6 |

**Remarks**

|                      |                 |
|----------------------|-----------------|
| Mounting instruction | See short guide |
|----------------------|-----------------|

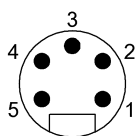


**BNI IOL-302-000-Z013**  
**Ordering code: BNI0035**

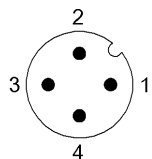
IO-Link module

**BALLUFF**

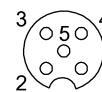
*sensors worldwide*



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



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



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