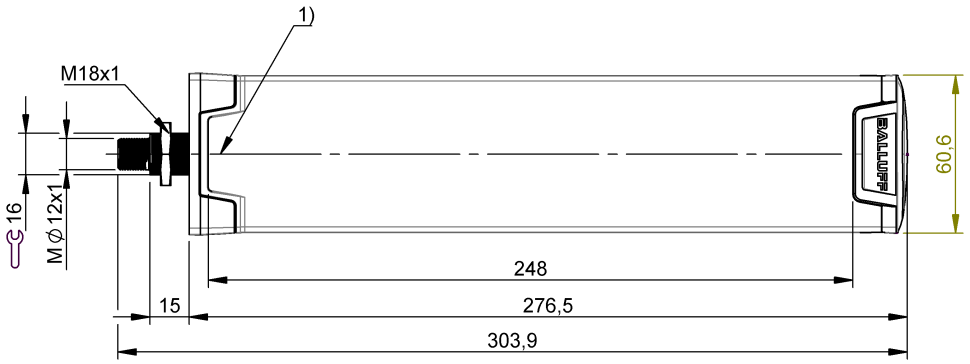
Signaling and Display Units

# BNI IOL-812-205-K036
# Order Code: BNI00M0




1) LED (Status)

## Basic features

| | |
|---|---|
| **Approval/Conformity** | CE<br>UKCA<br>cULus<br>WEEE<br>NOM |
| **Life expectancy min.** | 50000 h |
| **Scope of delivery** | Seal<br>Short guide<br>Hex nut M18x1 |

## Display/Operation

| | |
|---|---|
| **Colors, number** | 15 |
| **Dimmable** | yes |
| **Display** | Static, flashing, sparkling, free programmable |
| **Function indicator** | Segment<br>Fill level<br>Runlight<br>Flexible<br>Ultimate |
| **IO-Link communication indicator** | LED green, flashing |
| **Module supply indicator** | LED green |
| **Predefined colors** | Red<br>Green<br>Yellow<br>Blue<br>Magenta<br>Cyan<br>White<br>Orange<br>configurable |
| **Segments, number max.** | 6 |
| **Setting** | Display |

## Electrical connection

| | |
|---|---|
| **Connection** | M12x1-Male, 5-pin, A-coded |
| **Contact, surface protection** | CuZn, gold plated 0.08 µm |
| **Polarity reversal protected** | yes |

Signaling and Display Units

# BNI IOL-812-205-K036
# Order Code: BNI00M0

## Electrical data

| | |
|---|---|
| Current consumption max. at 24 V DC | 254 mA |
| Operating voltage Ub | 18...30.2 VDC |
| Power consumption (r/g/b/w) | 5.2 W / 5.7 W / 5.6 W / 6.1 W |
| Rated operating voltage Ue DC | 24 V |

## Environmental conditions

| | |
|---|---|
| Ambient temperature | -25...50 °C |
| IP rating | IP65 |
| Storage temperature | -40...50 °C |

## Functional safety

| | |
|---|---|
| MTTF (40 °C) | 17.4 a |

## IO-Link

| | |
|---|---|
| IO-Link Profil IDs | 0x4000 Identification and Diagnosis<br>0x0031 BLOB FW-Update<br>0x8101 Locator |
| IO-Link function | Device |
| IO-Link version | 1.1.4 |

## Interface

| | |
|---|---|
| Additional function | Extended mode |
| Cycle time min. | 5 ms |
| Frame type | 2.V |
| Interface | IO-Link: 1.1 |
| Process data IN | 1 byte |
| Process data OUT | 24 bytes |
| Process data cycle min. | 5 ms |
| Secondary features | SIO Mode |
| Transfer rate | COM3 (230.4 kBaud) |

## Material

| | |
|---|---|
| Gasket, material | FKM 55 |
| Housing material | PC, Transparent<br>PBT GF30 |

## Mechanical data

| | |
|---|---|
| Application weight | 338 g |
| Dimension | 60.6 x 60.6 x 303.9 mm |
| Mounting part | Nut M18x1 |

## Optical features

| | |
|---|---|
| Illumination area | 232 x 60 mm |
| Luminous flux (r/g/b/w) | 198 lm / 435 lm / 90 lm / 510 lm |

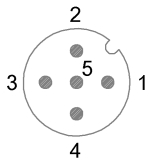
## Remarks

See handbook

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




PIN 1: +24V

PIN 2: C/Q for Extended, SIO 1

PIN 3: GND

PIN 4: C/Q, SIO 2

PIN 5: SIO 3