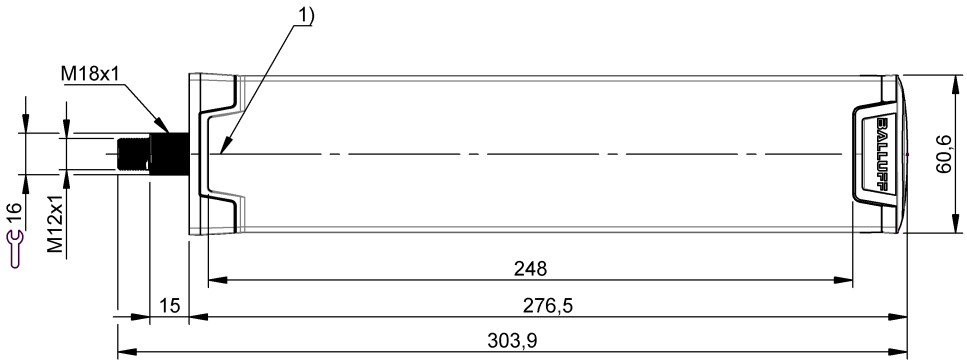
Signaling and Display Units

BNI IOL-812-205-K037
Order Code: BNI00LK



1) LED (Status)

Acoustic data

Sound frequency	500 Hz - 4000 Hz
Volume (at a distance of 1m)	95 dB

Basic features

Approval/Conformity	CE UKCA cULus WEEE NOM
Life expectancy min.	50000 h
Scope of delivery	Seal Short guide Hex nut M18x1

Display/Operation

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

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-K037
Order Code: BNI00LK

Electrical data

Current consumption max. at 24 V DC	268 mA
Operating voltage Ub	18...30.2 VDC
Power consumption (r/g/b/w)	5.5 W / 6.3 W / 6.2 W / 6.4 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)	15.9 a

IO-Link

IO-Link Profil IDs	0x4000 Identification and Diagnosis 0x0031 BLOB FW-Update 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 PBT GF30

Mechanical data

Application weight	346 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

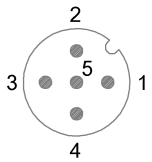
Remarks

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