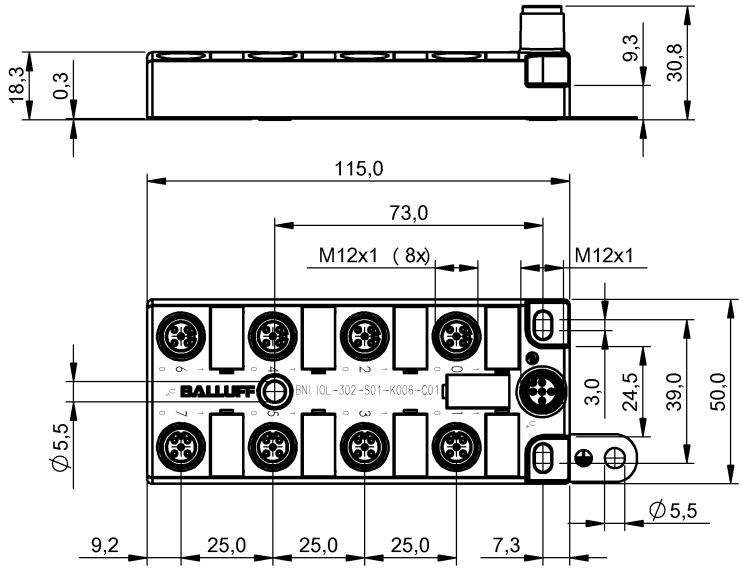
I/O modules

BNI IOL-302-S01-K006-C01

Order Code: BNI005W



Basic features

Approval/Conformity	CE UKCA WEEE cULus
Scope of delivery	Part label (12x) Port cover M12 (4x) Short guide
Style	Two-row

Display/Operation

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

Electrical connection

Connection (COM 1)	M12x1-Male, 4-pin, A-coded
Connection slots	8x M12x1-Female, 5-pin, A-coded

Electrical data

Configurable inputs/outputs	yes
Current consumption without load, max.	65 mA
Current sum UA, actuator	1.6 A
Current sum US, sensor	1.3 A
IO-Link function	Device
IO-Link ports, number	1
Operating voltage Ub	18...30.2 VDC
Rated operating voltage Ue DC	24 V
Switching current	16x 350 mA

Environmental conditions

Ambient temperature	-5...55 °C
EN 60068-2-27, Shock	100 g, 6 ms
EN 60068-2-6, Vibration	5…61 Hz, constant amplitude 1 mm 61…500 Hz, constant acceleration 15 g
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

Functional safety

MTTF (40 °C)	62 a

IO-Link

IO-Link Profil IDs	N/A

Interface

Additional function	Identification 2 bytes
Cycle time min.	5.5 ms
Digital inputs	16x PNP, Type 3
Digital outputs	16x PNP
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	10 bytes
Process data OUT	2 bytes
Process data cycle min.	5.5 ms
Single-channel monitoring	yes
Transfer rate	COM2 (38.4 kBaud)

Material

Gasket, material	FKM 75
Housing material	PA, Transparent
Housing shield	no

Mechanical data

Dimension	50 x 30.8 x 115 mm
Mounting ground strap	M5 screw with spring washer
Mounting part	3-hole screw mount
Weight	183 g

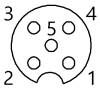
Remarks

See short guide

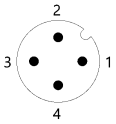
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Digital In-/Output Port
PIN 1: +24V
PIN 2: Input/Output 2
PIN 3: 0V / GND
PIN 4: Input/Output 1
PIN 5: Function ground



IO-Link
PIN 1: +24V, Controller
PIN 2: +24V, Actuators
PIN 3: GND, reference potential
PIN 4: C/Q, IO-Link DC-Channel