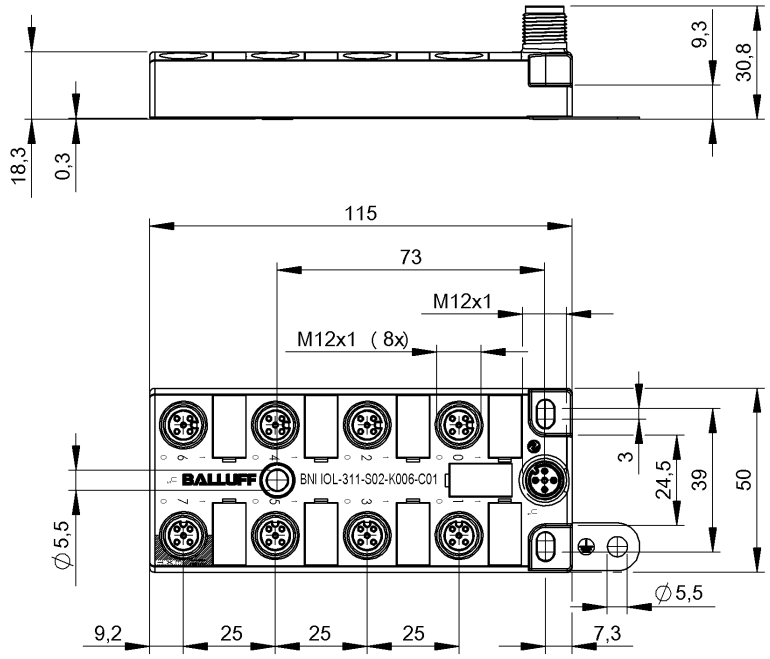
I/O modules

BNI IOL-311-S02-K006-C01
Order Code: BNI00AW



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	4 A
Current sum US, sensor	4 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 200 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

I/O modules

BNI IOL-311-S02-K006-C01
Order Code: BNI00AW

IO-Link

IO-Link Profil IDs	N/A

Interface

Additional function	Identification 2 bytes
Cycle time min.	6.0 ms
Digital inputs	16x NPN, Type 3
Digital outputs	16x NPN
Extension port	yes
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	10 bytes
Process data OUT	2 bytes
Process data cycle min.	6.0 ms
Single-channel monitoring	yes
Transfer rate	COM2 (38.4 kBaud)

Material

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

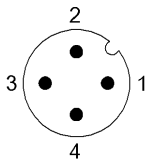
Mechanical data

Dimension	50 x 30.8 x 115 mm
Mounting ground strap	M5 screw with spring washer
Mounting part	3-hole screw mount
Weight	188 g

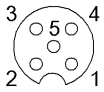
Remarks

See short guide

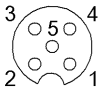
Connector Drawings



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



Digital In-/Output Port
PIN 1: +24V
PIN 2: Digital IO NPN
PIN 3: GND, reference potential
PIN 4: Digital IO NPN
PIN 5: Function ground



Extension port
PIN 1: +24V
PIN 2: Digital IO NPN/+24V, AUX
PIN 3: GND, reference potential
PIN 4: Digital IO NPN/IO-Link
PIN 5: Function ground