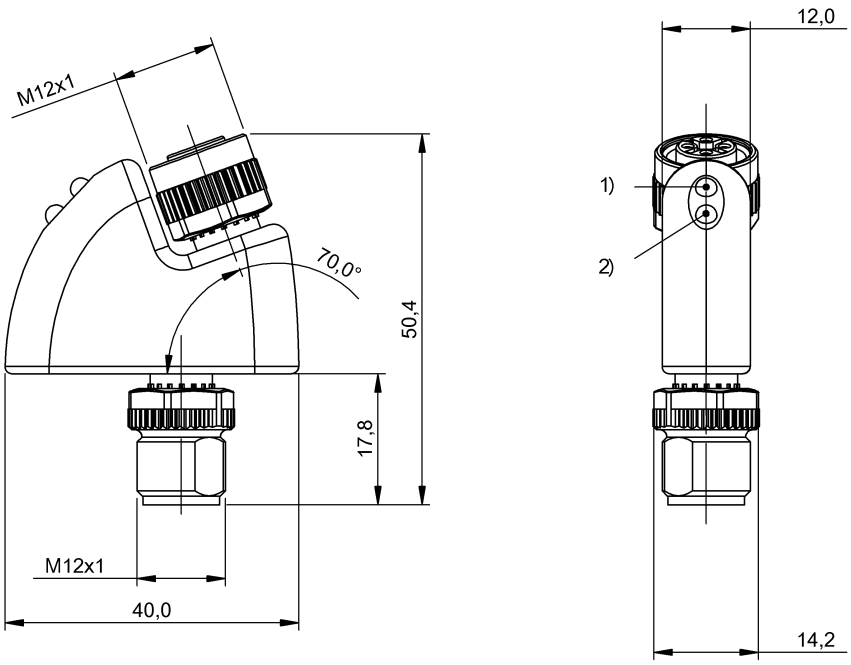
I/O modules

BNI IOL-714-000-K023
Order Code: BNI0042



Basic features

Approval/Conformity	CE WEEE
Scope of delivery	Short guide

Display/Operation

IO-Link communication indicator	LED green
Module supply indicator	LED green

Electrical connection

Connection (COM 1)	M12x1-Male, 4-pin, A-coded
Connection slots	M12x1-Female, 4-pin, A-coded
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

Electrical data

Configurable inputs/outputs	no
Current consumption without load, max.	30 mA
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

Environmental conditions

Ambient temperature	-5...70 °C
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

Functional safety

MTTF (40 °C)	494 a

IO-Link

IO-Link Profil IDs	N/A

I/O modules

BNI IOL-714-000-K023
Order Code: BNI0042

Interface

Analog inputs	Analog, voltage (0…10 V)
Cycle time min.	3 ms
IO-Link version	1
Interface	IO-Link 1.0
Process data IN	2 bytes
Process data cycle min.	3 ms
Transfer rate	COM2 (38.4 kBaud)

Material

Gasket, material	FKM 75
Housing material	PA
Housing shield	no

Mechanical data

Dimension	14.2 x 50.4 x 40 mm
Weight	34 g

Range/Distance

Resolution	≤ 14 bits

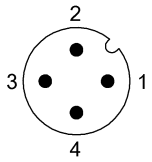
Remarks

See short guide

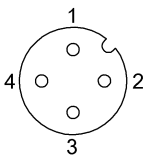
For more information about MTTF and B10d see MTTF / B10d Certificate

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



IO-Link
PIN 1: +24V, 1.4A
PIN 2: not used
PIN 3: GND, reference potential
PIN 4: C/Q, IO-Link



Analog input port
PIN 1: +24V, 1.5A
PIN 2: not used
PIN 3: GND
PIN 4: Analog input/Voltage