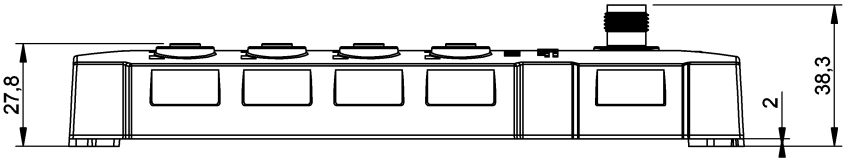
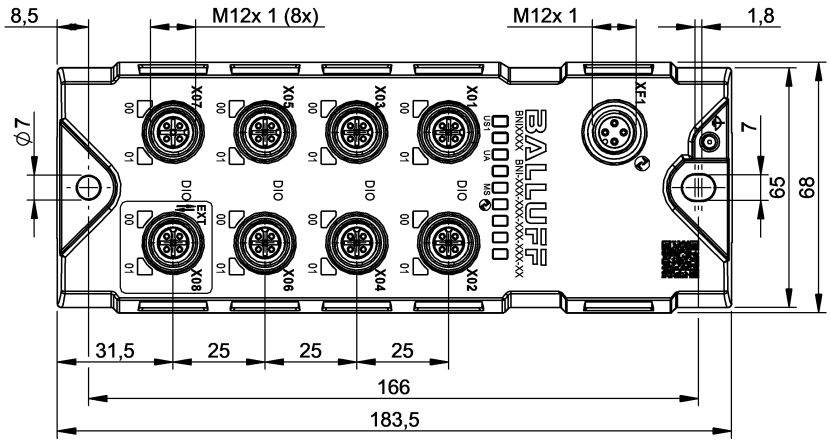
I/O modules

BNI LH1-742-S13-R012
Order Code: BNI00MA





Basic features

Approval/Conformity	CE UKCA WEEE cULus KC
Scope of delivery	Grounding strap Short guide M4x6 screw
Style	Two-row

Display/Operation

Actuator supply UA, indicator	yes
IO-Link communication indicator	yes
Module supply indicator	yes
Sensor supply US indicator	yes

Electrical connection

Connection (COM 1)	M12x2-Male, 4-pin, A-coded
Connection slots	8x M12x1-Female, 5-pin, A-coded
Contact, surface protection	Gold plated 0.08 µm

Electrical data

Configurable inputs/outputs	no
Current consumption without load, max.	40 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

Environmental conditions

Ambient temperature	-25...70 °C
Ambient temperature UL max.	50 °C
EN 60068-2-27, Shock	100 g, 6 ms
EN 60068-2-6, Vibration	10…500 Hz, constant amplitude 1 mm, constant acceleration 15 g
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

BNI LH1-742-S13-R012
Order Code: BNI00MA

IO-Link

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

Interface

Analog inputs	4x Analog, voltage/analog, current (0…10 V/-10…10 V/0…5 V/-5…5 V/5…10 V/1…5 V/4…20 mA/0…20 mA)
Analog outputs	4x Analog, voltage/analog, current (0…10 V/-10…10 V/0…5 V/-5…5 V/5…10 V/1…5 V/4…20 mA/0…20 mA)
Cycle time min.	3 ms
Frame type	2.V
IO-Link version	1.1
Interface	IO-Link 1.1.5
Process data IN	14 bytes
Process data OUT	8 bytes
Process data cycle min.	3 ms
Single-channel monitoring	yes
Transfer rate	COM3 (230.4 kBaud)

Material

Gasket, material	FKM NBR
Housing material	PBT GF30 inserts: stainless steel, 1.4404
Housing shield	no

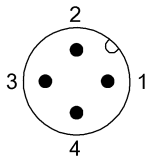
Mechanical data

Dimension	68 x 38.3 x 183.5 mm
Mounting ground strap	M4 internal thread
Mounting part	2-hole screw mount
Weight	400 g

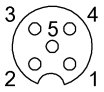
Range/Distance

Resolution	≤ 16 Bit Adjustable

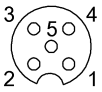
Connector Drawings



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



PIN 1: +24 V US, max. 250 mA
PIN 2: Input 2
PIN 3: GND
PIN 4: Input 1
PIN 5: Function ground



PIN 1: +24 V UA, max. 500 mA
PIN 2: Output
PIN 3: GND
PIN 4: n.c.
PIN 5: Function ground