

## Simple (and) good: IO-Link master with multi-protocol

# NEXT GENERATION IO-LINK MASTER

The intelligent combination of industrial networks with the IO-Link communication standard is the basis for ever faster, more flexible, more efficient and more versatile production. With the latest generation of our powerful IO-Link master BNI, you can easily enter the world of the powerful communication standard. This allows you to benefit from all the advantages of IO-Link. To achieve this, we have focused on the essentials in terms of module design and functions.

### A talent for languages: greatest flexibility thanks to multi-protocol capability

With our masters, you can integrate IO-Link devices into the overall automation system. They provide the interface to the higher-level controller

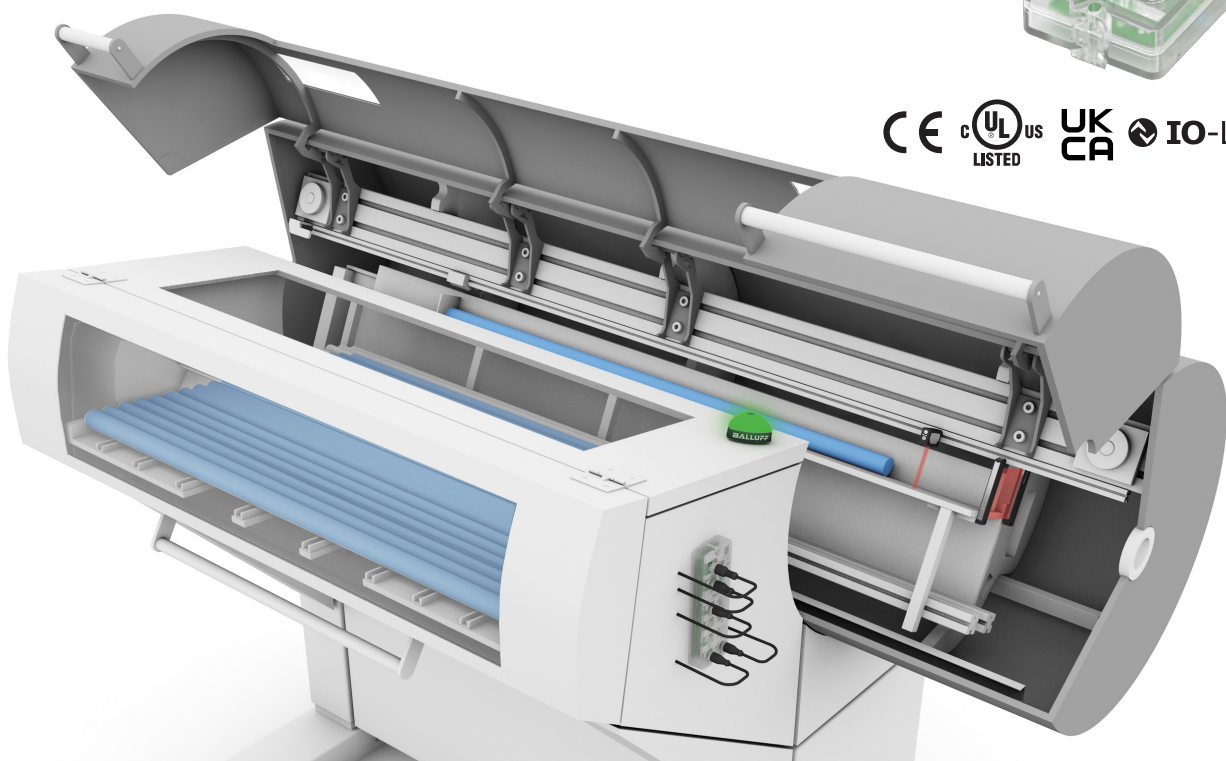
and reliably control communication with connected IO-Link devices – even under harsh environmental conditions.

Our new BNI masters support most established industrial Ethernet protocols in one device – for example Profinet, Ethernet IP or Modbus TCP. This significantly reduces the number of components required and thus the costs incurred. In addition, with these network modules you are also equipped for the future, because the devices also support IoT interfaces such as MQTT.

With the user-friendly web interface, you set up the devices conveniently and easily. In addition, your applications are reliably monitored and process and device information is transmitted from the IO-Link device to higher-level systems.

### Features

- Environmentally friendly: IP67 plastic housing without potting
- Multi-protocol: several industrial Ethernet protocols in one device
- Optimal for IO-Link beginners
- Simple and cost-saving installation and maintenance
- Reliable transmission of machine and diagnostic data as well as process parameters to the controller
- IIoT-enabled: REST API support, MQTT
- Usability: integrated Web UI
- Secure communication: support for HTTPS
- Power supply M12 A-coded/ M12 L-coded



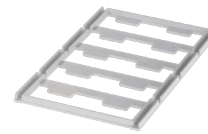
Bar loading magazine – management IO-Link sensors/actuators with Balluff networking modules.

BNI IO-LINK MASTER  
WITH MULTI-PROTOCOL



	BNI00HP	BNI00HR
Interface	Profinet, Ethernet IP (Multi-protocol)	Profinet, Ethernet IP (Multi-protocol)
Operating voltage	18...30 V DC	18...30 V DC
Connection COM 1	M12 female, 4-pin, D-coded	M12 female, 4-pin, D-coded
Connection COM 2	M12 female, 4-pin, D-coded	M12 female, 4-pin, D-coded
Connection power supply IN	M12 male, 2-pin, A-coded	M12 male, 3-pin, L-coded
Connection slots	8 × M12 female, 5-pin, A-coded	8 × M12 female, 5-pin, A-coded
Digital inputs	16 × PNP, Typ3	16 × PNP, Typ3
Digital outputs	8 × PNP	8 × PNP
Configurable inputs/outputs	Yes	Yes
Current sum, sensor	4 A	4 A
Output current max. pin 4	0.25 A	0.25 A
Housing material	PC	PC
Dimension	59 × 36.8 × 180 mm	59 × 36.8 × 180 mm
IP rating	IP67	IP67
Additional interfaces	8 × IO-Link	8 × IO-Link
IO-Link version	1.1.3	1.1.3
Port class	Type A	Type A
Interface IIoT	REST API, MQTT	REST API, MQTT

ACCESSORIES



	BAM01C2	BAM042F
Type	Protective cap for M12 connections	10 × labels for the labeling of the connections
Dimension	∅ 14 × 13.2 mm	15 × 5 mm, each
Material	PC, ABS	PA

CONNECTIVITY



	BCC0JFJ	BCC0374	BCC0L30	BCC09FU
Connection 1	M12 male, straight, 4-pin, D-coded	M12 female, straight, 5-pin, A-coded	M12 female, straight, 5-pin, L-coded	M12 female, straight, 5-pin, A-coded
Connection 2	M12 male, straight, 4-pin, D-coded	M12 male, straight, 3-pin, A-coded	M12 female, straight, 5-pin, L-coded	M12 male, straight, 5-pin, A-coded
Cable	PUR shielded green, 5 m, drag chain compatible	PUR black, 5 m, drag chain compatible	PUR gray, 5 m, drag chain compatible	PUR black, 5 m, drag chain compatible