

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

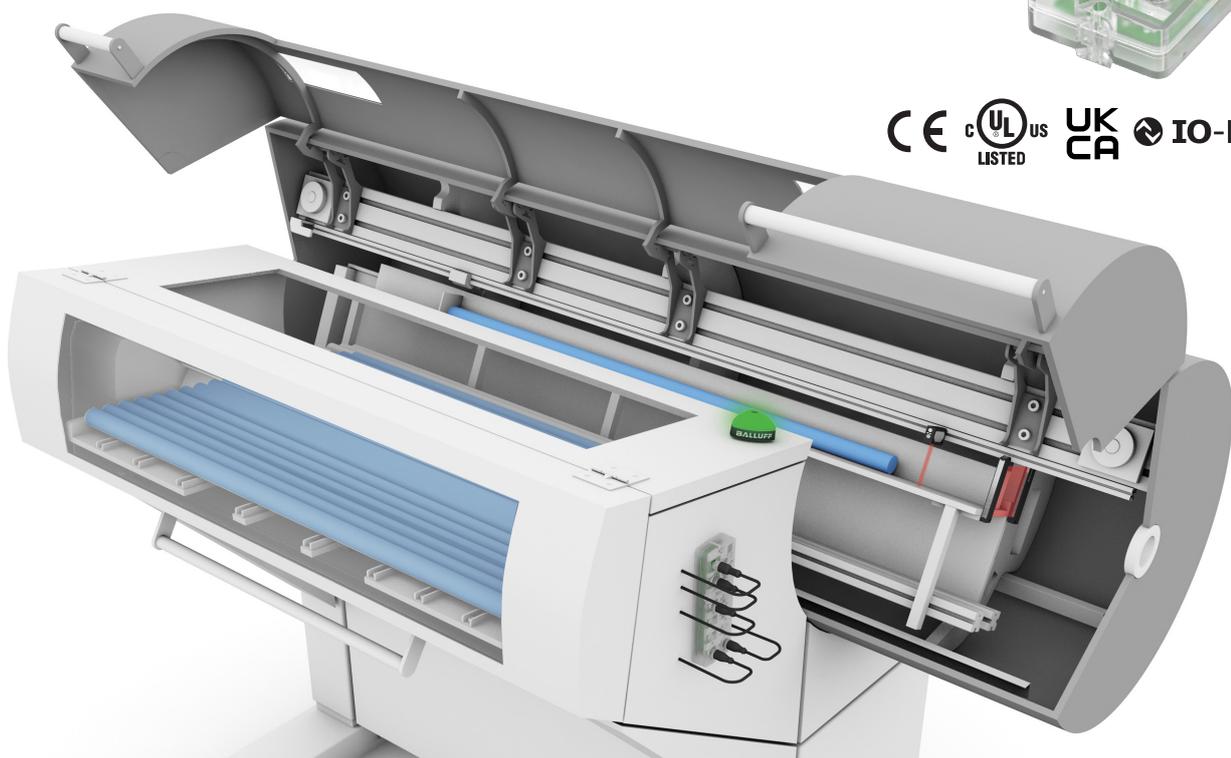
and reliably control communication with connected IO-Link devices – even under harsh environmental conditions.

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 |