

For seamless communication from the sensor to the controller STANDARD IO-LINK MASTER

The IO-Link communication standard is a central element for smart production processes, since it enables digital data exchange between sensors and controllers. The Standard IO-Link Master combines this proven technology with modern interfaces, expanding the possibilities in industrial automation.

Proven technology, enhanced with modern connections

The IO-Link network module is based on Balluff's established BNI family and features new, market-standard M12 L-coded connections. The L-coded M12 connections make it possible to deliver up to 2 A per port and up to 16 A total current. This facilitates the connection of actuators and high-power sensors and enables the efficient integration of a large number of IO-Link devices into your network structure the using Balluff I/O modules.

Extended interfaces for seamless integration

In addition to the M12 power connector, the standard IO-Link master is equipped with future-proof data interfaces such as REST API and MQTT, which enable simple OT-IT integration. This innovation enables you to meet increasing technical requirements – especially in the context of the Industrial Internet of Things (IIoT).

In addition, the BNI Master supports most common industrial Ethernet protocols such as Profinet or Ethernet IP in a single device. This reduces the number of components required and also cuts costs. A user-friendly web user interface (web UI) makes it easier to configure and monitor the devices. It ensures reliable monitoring of your applications and consistent transmission of process and device information from the IO-Link device to higher-level systems.

Features

- IIoT-capable: REST API (JSON for IO-Link), MQTT
- Support for the most common fieldbus protocols
- Power: Output current max. up to 2 A per port
- Power: M12 L-coded (16 A total)
- Usability: integrated and intuitive web UI







By integrating I/O modules, you can flexibly scale your automation with the standard IO-Link master.



STANDARD IO-LINK MASTER

D. 1100 1 0
BNIO0L3
Multi-protocol (Profinet, Ethernet IP, EtherCAT)
REST API, JSON for IO-Link, MQTT
No
1830 VDC
M12 female, 4-pin, D-coded
M12 female, 4-pin, D-coded
M12 male, 5-pin, L-coded
M12 female, 5-pin, L-coded
8 × M12 female, 5-pin, A-coded
16 × PNP, Type 3
16 × PNP
Yes
2 A (Pin 2), 2 A (Pin 4)
16 A/16 A
Plastic
68 × 38,3 × 226,2 mm
−25+70 °C
IP67
8 × IO-Link
1.1.3
8 × Type A

ACCESSORIES



	BAM01C2
Туре	Protective cap for M12 connections
Dimension	Ø 14 × 13.2 mm
Material	PC, ABS

CONNECTIVITY







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