

## 4-port IO-Link master in compact form for Profinet, Ethernet/IP and EtherCAT

# SLIM IO-LINK MASTER FOR ETHERNET BASED INDUSTRIAL NETWORKS

### Modules with IO-Link-Port Class A and Class B available

The specification for IO-Link distinguishes between two port types: Port Class A (Type A) and Port Class B (Type B).

#### Port Class A (Type A)

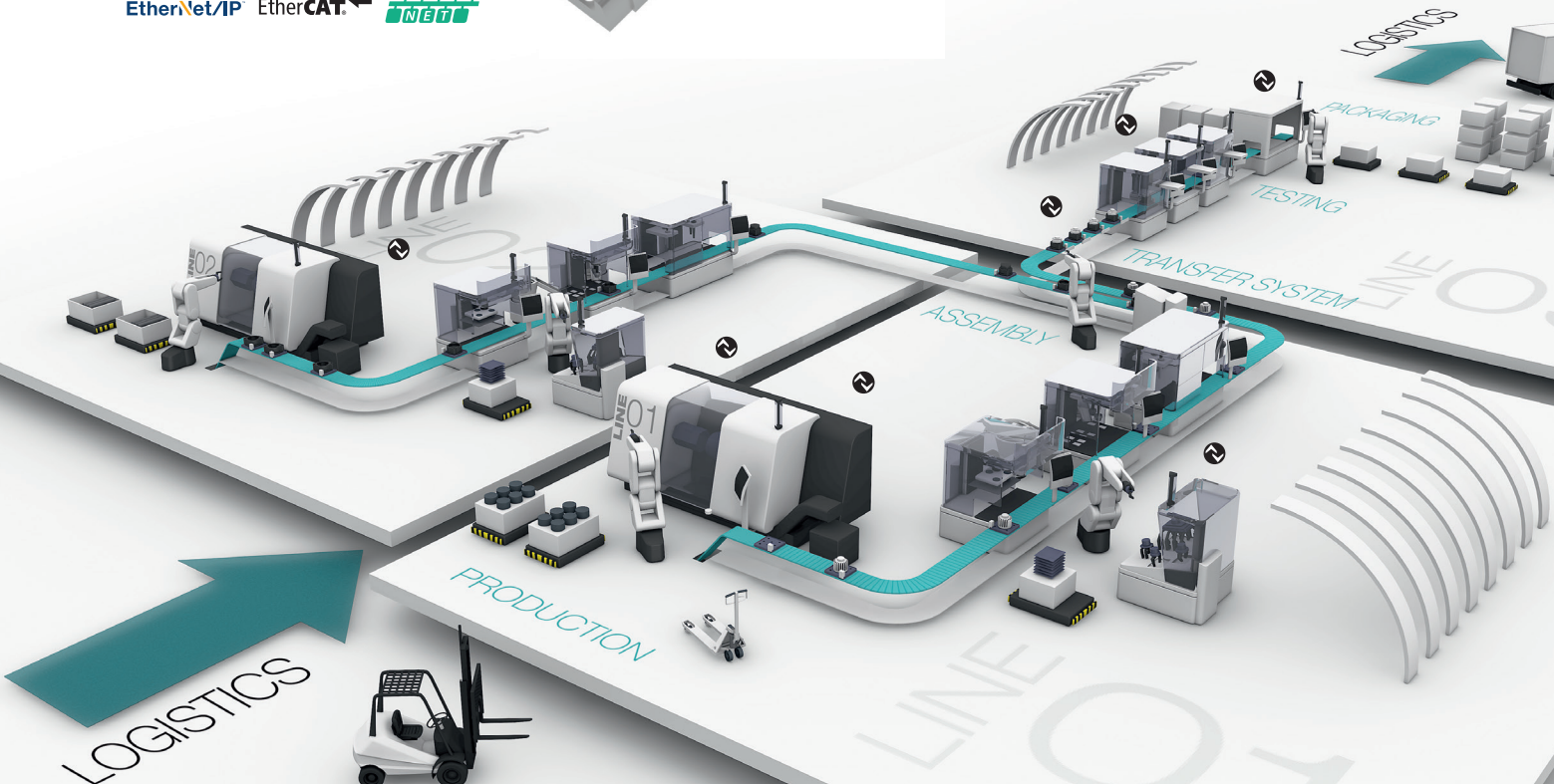
In Type A the functions of pins 2 and 5 are not specified. These functions are defined by the device manufacturer. Pin 2 is typically assigned to an additional digital channel.

#### Port Class B (Type B)

Type B offers an additional supply voltage and is suitable for connecting devices that require additional or separate aux-power. Here pins 2 and 5 provide an additional (galvanically isolated) supply voltage. A 5-conductor standard cable is required for using this additional supply voltage.

#### Features

- All benefits of IO-Link in compact space
- 32 bytes of bi-directional data communication per port for smart sensors, measurement devices and high density I/O architectures
- Up to 124 I/O points per network node with Balluff expansion I/O hubs
- Built-in network switch and integrated full service webserver included





#### IO-Link Master Class A

Profinet	BNI0092
Ethernet/IP	BNI009T
EtherCAT	BNI009U

#### IO-Link Master Class B

Profinet	BNI00A9
Ethernet/IP	BNI00AA
EtherCAT	BNI00AC
Type	4 × IO-Link, 8 × I/O
Supply voltage $U_B$	18...30 V DC
Fieldbus connection	M12, D-coded, female
AUX power connection	7/8", male
Connection: I/O ports	M12, A-coded, female
No. of I/O ports	4
Configurable inputs/outputs	max. 8 I, max. 8 O
Max. load current, sensor/channel	1.6 A
Max. load current, output	2 A
Total module current	< 9 A
Enclosure rating per IEC 60529	IP 67 (when connected)
Operating temperature $T_a$	-5...+70 °C
Dimensions	224 × 37 × 32 mm
Housing material	Nickel-plated die-cast zinc

#### IO-Link Version 1.1

No. of IO-Link master ports	4 × master
Operation modes (3-wire)	SIO, COM 1, COM 2, COM 3
Max. load current IO-Link device	1.6 A

#### Services



Service – You can rely on our support over the entire life cycle of our products and solutions: Including the design and planning of your projects, testing and setup on site, and training and support. For more information, visit us online at [www.balluff.com/en/de/service/services/](http://www.balluff.com/en/de/service/services/)