

I/O modules with 8 IO-Link ports and expandable IO-Link I/O hubs for washdown environment

IP69-RATED NETWORK MODULES WITH STAINLESS STEEL HOUSING

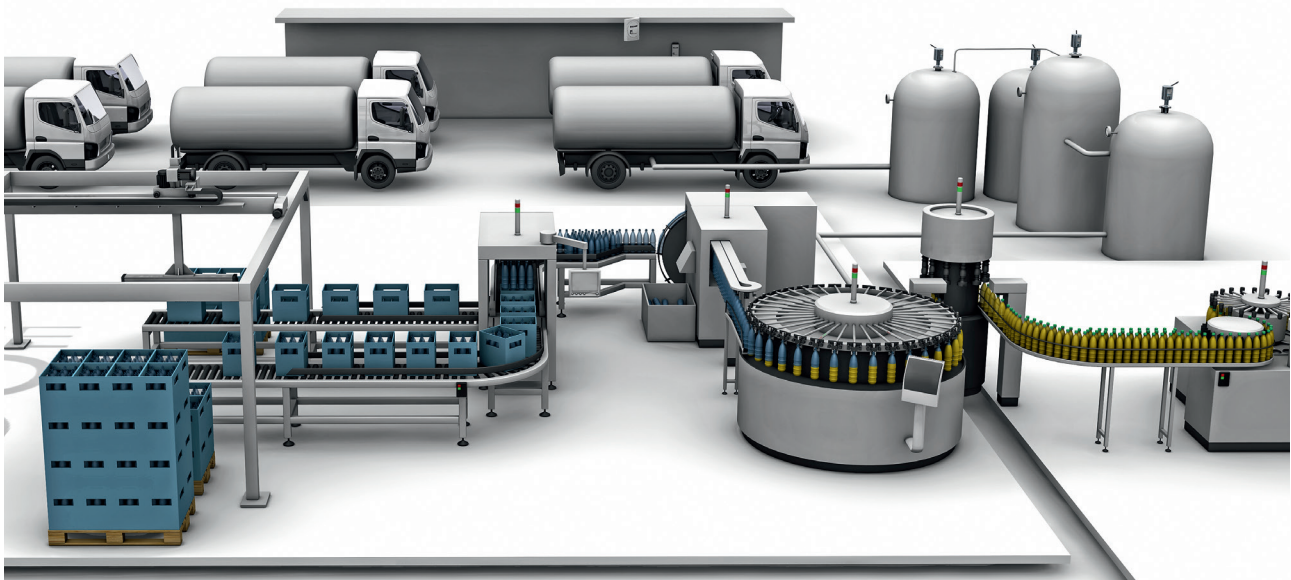
For strict hygienic requirements

The new family of network modules are developed for the extreme conditions of the foods and pharmaceuticals industries. The corrosion- and cleaning agent resistant modules in stainless steel with their easy to clean washdown design ensure reliable and errorless signal transmission even in demanding environments with stringent requirements.

The family of products include machine mount IO-Link masters with 8 IO-Link ports each port can be configured as dual input or output, or can connect to wide variety of IO-Link sensors or actuator modules as well as IO-Link sensor/actuator hubs. The efficient point-to-point connection of IO-Link enables distributed modular architecture that offers flexibility and future expandability. Network nodes equipped with an IO-Link master communicate directly with the controller or machine control device via Ethernet/IP.

Features

- 8 IO-Link ports for connecting various IO-Link devices
- Up to 16 configurable I/O points, each point with an LED for error diagnostics
- Large status LEDs for monitoring the ports and network communication
- Integrated webserver for setup configuration and monitoring module information (IP address, settings, parameters,...)
- Expansion port on the IO-Link I/O hubs for connecting an IO-Link valve terminal connector or an IO-Link sensor/actuator hub (and increasing the I/O count up to max. 30)
- IP69 rated and resistant to caustic/corrosive cleaning agents and environments*
- All network modules ECOLAB certified



* In accordance with ECOLAB test procedure (test method: F&E/P3-E no. 40-1) for material resistance, documented in Test Report no. 6006-14-GG-14-PR001 of SLG Prüf- und Zertifizierungs-GmbH



	BNI0096	BNI009K	BNI009M	BNI009N
Communication	EtherNET/IP	EtherNET/IP	Profinet	Profinet
Type	8 × IO-Link, 16 × I/O	16 × I/O	8 × IO-Link, 16 × I/O	16 × I/O
Supply voltage UB	18...30.2 V DC	18...30.2 V DC	18...30.2 V DC	18...30.2 V DC
Communication connection	M12, D-coded, female	M12, D-coded, female	M12, D-coded, female	M12, D-coded, female
AUX power connection	7/8", male	7/8", male	7/8", male	7/8", male
Connection: I/O-ports	M12, A-coded, female	M12, A-coded, female	M12, A-coded, female	M12, A-coded, female
No. of I/O ports	8	8	8	8
Max. load current, input/output	1.6 A/2 A	1.6 A/2 A	1.6 A/2 A	1.6 A/2 A
Total current/Modul	< 9 A	< 9 A	< 9 A	< 9 A
Degree of protection as per IEC 60529	IP69	IP69	IP69	IP69
Operating temperature Ta	-5...70 °C	-5...70 °C	-5...70 °C	-5...70 °C
Dimensions	228 × 70 × 44.1 mm	228 × 70 × 44.1 mm	228 × 70 × 44.1 mm	228 × 70 × 44.1 mm
Housing material	stainless steel V4A (1.4571)	stainless steel V4A (1.4571)	stainless steel V4A (1.4571)	stainless steel V4A (1.4571)

IO-Link Version 1.1

Operating modes (3-wire)	COM 1, COM 2, COM 3	COM 1, COM 2, COM 3	COM 1, COM 2, COM 3	COM 1, COM 2, COM 3
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	BNI009L	BNI00AP	BNI00AR	BNI00AT
Communication	EtherNET/IP	IO-Link	IO-Link	IO-Link
Type	16 × I	16 × I	16 × I/O	16 × I/O
Supply voltage UB	18...30.2 V DC	18...30.2 V DC	18...30.2 V DC	18...30.2 V DC
Communication connection	M12, D-coded, female	M12, A-coded, male	M12, A-coded, male	M12, A-coded, male
AUX power connection	7/8", male			7/8", male
Connection: I/O-ports	M12, A-coded, female	M12, A-coded, female	M12, A-coded, female	M12, A-coded, female
No. of I/O ports	8	8	8	8
Max. load current, input/output	1.6 A	1.6 A	1.6 A/2 A	1.6 A/2 A
Total current/Modul	< 9 A	4 A	4 A	< 9 A
Degree of protection as per IEC 60529	IP69	IP69	IP69	IP69
Operating temperature Ta	-5...70 °C	-5...70 °C	-5...70 °C	-5...70 °C
Dimensions	228 × 70 × 44.1 mm	185.6 × 70 × 37.9 mm	185.6 × 70 × 37.9 mm	185.6 × 70 × 38.4 mm
Housing material	stainless steel V4A (1.4571)	stainless steel V4A (1.4571)	stainless steel V4A (1.4571)	stainless steel V4A (1.4571)

IO-Link Version 1.1

Operating modes (3-wire)		COM2	COM2	COM2
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