

Smart Automation and Monitoring System

IO-LINK SENSOR/ACTUATOR HUBS FOR WASHDOWN APPLICATIONS

The Smart Automation and Monitoring System (SAMS) represents Balluff's comprehensive automation philosophy. Thanks to its uniform and standardized operating and configuration concept, long startup times, prolonged training and time-consuming troubleshooting when a device fails unexpectedly are a thing of the past.

In addition to process and condition data, our intelligent components provide valuable diagnostics data. This opens up vast new possibilities – from condition monitoring of the machines and equipment, to predictive maintenance, to entirely new business models.

The new family of IO-Link hubs for digital inputs/outputs and analog input signals are part of this system. Different units allow you to meet your specific demands and requirements. Depending on the application you can manage up to 16 digital inputs and outputs (with or without separate supply voltage for high load) or up to 8 analog signals. They also provide module status values such as operating hours and vibration monitoring.

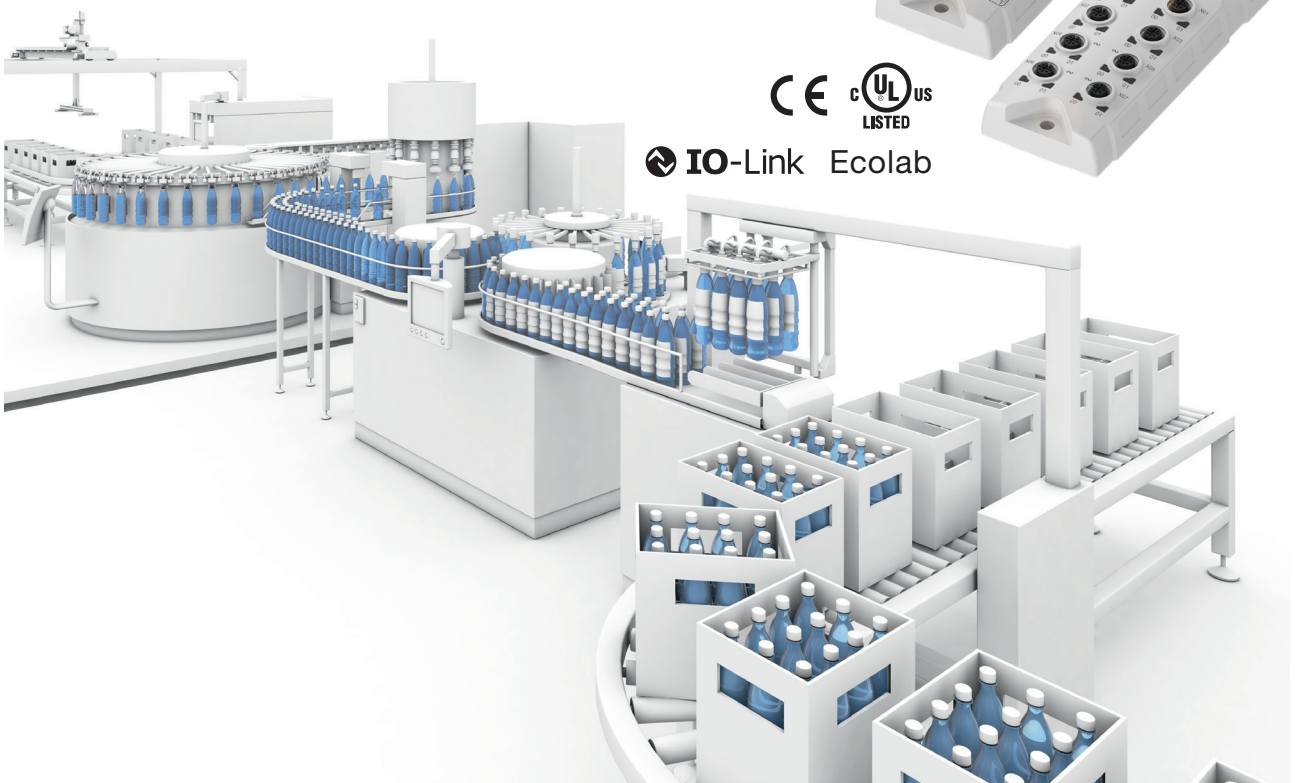
Thanks to a new IP69K housing design for washdown applications these new BNI IO-Link network modules are ideal wherever regular cleaning cycles are performed. Now you can always take control, even in these challenging conditions.

Features

- IP69K plastic housing suitable for washdown
- All modules are Ecolab certified
- Convenient diagnostics with IO-Link and status LEDs
- All ports can be independently parameterized
- Single-channel monitoring
- Digital inputs/outputs configurable
- Analog voltage and current signals
- Digital hubs with extension port
- Version with auxiliary power through M12 L-coded plug



 IO-Link Ecolab



IO-LINK SENSOR/ ACTUATOR HUBS



	BNI00F6	BNI00F7	BNI00F9	BNI00FA
Interface	IO-Link 1.1	IO-Link 1.1	IO-Link 1.1	IO-Link 1.1
Operating voltage	18...30.2 V DC	18...30.2 V DC	18...30.2 V DC	18...30.2 V DC
Connection (COM 1)	M12 male, 4-pin, A-coded	M12 male, 4-pin, A-coded	M12 male, 4-pin, A-coded	M12 male, 4-pin, A-coded
Connection (supply voltage IN)		M12 male, 5-pin, L-coded		
Connection slots	8 × M12 female, 5-pin, A-coded	8 × M12 female, 5-pin, A-coded	8 × M12 female, 5-pin, A-coded	8 × M12 female, 5-pin, A-coded
Digital inputs	16 × PNP/NPN, Type 3/1	16 × PNP/NPN, Type 3/1	8 × PNP, Type 3/1	
Digital outputs	16 × PNP	16 × PNP	8 × PNP	
Configurable digital inputs/outputs	Yes	Yes	Yes	
Analog inputs			4 × voltage/current	8 × voltage/current
Single-channel monitoring	Yes	Yes	Yes	Yes
Extension port	Yes	Yes		
Housing material	Plastic	Plastic	Plastic	Plastic
Dimension	68 × 36.8 × 183.5 mm	68 × 36.8 × 183.5 mm	68 × 36.8 × 183.5 mm	68 × 36.8 × 183.5 mm
Ambient temperature	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C
IP rating	IP68/IP69K	IP68/IP69K	IP68/IP69K	IP68/IP69K
Transfer rate	COM3 (230.4 kBaud)	COM3 (230.4 kBaud)	COM3 (230.4 kBaud)	COM3 (230.4 kBaud)
Condition monitoring features	Vibration detection, internal temperature monitoring, voltage and current monitoring			
Multi-functions	Operating hours counter, ping for visual localization of the device			

ADDITIONAL PRODUCTS



	BNI00EK	BNI00F8	BIC0084	BIC0085
Description	Profinet IO-Link master, 8 × IO-Link, Port class A	Profinet IO-Link master, 4 × IO-Link, Port class A, 4 × IO-Link, Port class B	Inductive coupler, IO-Link, base, Ø 30 mm, washdown	Induktive Koppler, IO-Link, remote, Ø 30 mm, washdown

CONNECTIVITY



	BCC0JT6	BCC0LL5	BCC0LWT	BCC0LWW
Connection 1	M12 female, straight, 5-pin, A-coded	M12 female, straight, 5-pin, L-coded	M12 female, straight, 5-pin, A-coded, shield on cover nut	M12 female, straight, 5-pin, A-coded, shield on cover nut
Connection 2	M12 male, straight, 5-pin, A-coded	M12 male, straight, 5-pin, L-coded	M12 male, straight, 5-pin, A-coded, shield on pin 5	M12 male, straight, 4-pin, A-coded, shield on cover nut
Cable	TPE-V gray, 5 m	PUR gray, 5 m, drag chain compatible	PVC shielded gray, 0.3 m, drag chain compatible	PVC shielded gray, 2 m, drag chain compatible