

## An Entry to IO-Link Technology

# SIMPLE (AND) GOOD: NEW GENERATION OF IO-LINK SENSOR/ACTUATOR HUBS

Easy entry into efficient and proven IO-Link technology is made possible by the new generation of our I/O modules. Flexibly adapted to meet your needs, you can use up to 16 digital inputs or 8 digital inputs and outputs depending on the application.

This allows for flexible exchange and easy expansion of your application. The next generation sensor/actuator hubs provide eight standardized M12 ports, four of which can be configured variably.

The added value to existing Balluff IO-Link sensor/actuator hubs is primarily in the optimized housing concept and the deliberate simplicity of the new generation.

Less is more – you gain simple handling and support of basic I/O functions without complex add-on functions.

Our new sustainable housing concept uses recyclable materials without potting materials in an environmentally friendly

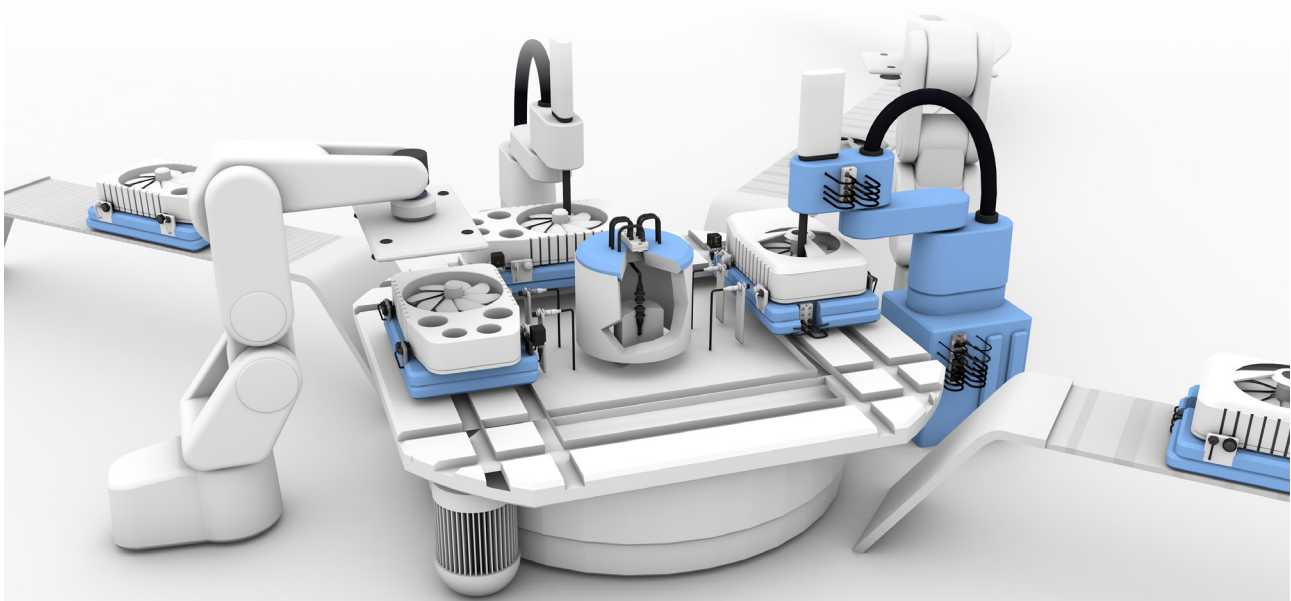
way, while still meeting all the requirements for industrial use in the usual Balluff quality.

### Improved process quality with IO-Link

IO-Link brings users more flexibility and increases efficiency in automation. Our new gen IO-Link sensor/actuator hub offers you an easy entry into IO-Link technology for support of basic I/O functions. You can simply realize efficient topologies, because communication and power supply run over a single line. Our I/O modules enable the integration of standard sensors and actuators in IO-Link topologies. Sensor/actuator hubs also offer you a high savings potential, because they reduce the number of fieldbus modules and enable efficient scaling of the application. In a nutshell, our new gen version is an ideal solution for getting started with the IO-Link standard or for completing versatile applications in a cost-effective manner.

### Features

- Efficient and effective – perfectly suited for low power signal processing
- Flexible and from a single source – our new generation I/O modules are available in NPN and PNP variants
- Compact, lightweight and sustainable – optimized for use in moving applications and with Balluff's high quality
- Fast, effective signal transmission and reduced signal runtimes due to COM3 transmission standard
- Individually adapted to your needs, four of the digital ports can be flexibly configured



The sensor/actuator hubs offer an easy introduction to IO-Link technology. For more flexibility in manufacturing.

IO-LINK-  
SENSOR/ACTUATOR  
HUBS



	BNI00J8	BNI00J9	BNI00JA
Interface	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
Connection (COM 1)	M12-Male, 4-pin, A-coded	M12-Male, 4-pin, A-coded	M12-Male, 4-pin, A-coded
Connection slots	8 x M12-Female, 5-pin, A-coded	8 x M12-Female, 5-pin, A-coded	8 x M12-Female, 5-pin, A-coded
Digital inputs	16 x PNP, Type 3	16 x NPN, Type 3	16 x PNP, Type 3
Digital outputs	8 x PNP	8 x NPN	8 x PNP
Configurable inputs/outputs	yes	yes	yes
Extension port	no	no	yes
Current sum, sensor	2 A	2 A	2 A
Current sum, actuator	2 A	2 A	2 A
Switching current	8 x 200 mA	8 x 200 mA	8 x 200 mA
Housing material	PC Lexan, Transparent	PC Lexan, Transparent	PC Lexan, Transparent
Dimension	54 x 39.2 x 141.3 mm	54 x 39.2 x 141.3 mm	54 x 39.2 x 141.3 mm
Ambient temperature	-20...60 °C	-20...60 °C	-20...60 °C
IP rating	IP67, when threaded in	IP67, when threaded in	IP67, when threaded in
Transfer rate	COM3 (230.4 kBaud)	COM3 (230.4 kBaud)	COM3 (230.4 kBaud)
Process data cycle min.	2 ms	2 ms	2 ms
Process data IN	6 bytes	6 bytes	6 bytes
Process data OUT	2 bytes	2 bytes	2 bytes

ACCESSORIES



	BES060R	BES060U	BAM01JU
Type	M12 x 45 mm	M12 x 65 mm	Labels for the marking of the Network modules
Switching output	PNP normally open (NO)	PNP normally open (NO)	
Connection	Connector, M12-Male, 3-pin	Connector, M12-Male, 3-pin	

CONNECTIVITY



	BCC032H	BCC032J	BCC039N	BCC09FT
Connection	M12-Female, straight, 5-pin, A-coded	M12-Female, straight, 5-pin, A-coded	M12-Female, straight, 5-pin, A-coded/ M12-Male, straight, 4-pin, A-coded	M12-Female, straight, 5-pin, A-coded/ M12-Male, straight, 5-pin, A-coded
Cable	PUR black, 5 m, drag chain compatible	PUR black, 10 m, drag chain compatible	PUR black, 3 m, drag chain compatible	PUR black, 3 m, drag chain compatible