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.

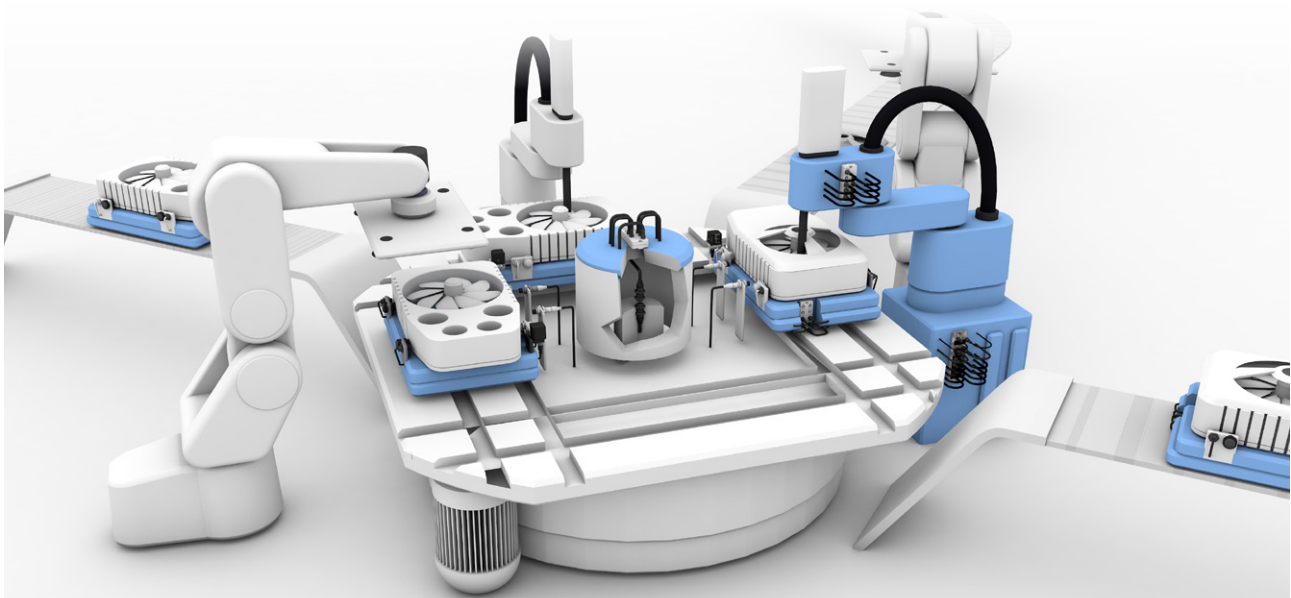Our new sustainable housing concept uses recyclable materials without potting materials in an environmentally friendly way, while still meeting all the requirements for industrial use in the usual Balluff quality.

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

CE UK CA IO-Link

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 Ub	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 × PNP, Type 3	16 × NPN, Type 3	16 × PNP, Type 3
Digital outputs	8 × PNP	8 × NPN	8 × PNP
Configurable inputs/outputs	yes	yes	yes
Extension port	no	no	yes
Current sum US, sensor	2 A	2 A	2 A
Current sum UA, actuator	2 A	2 A	2 A
Switching current	8 × 200 mA	8 × 200 mA	8 × 200 mA
Housing material	PC Lexan, Transparent	PC Lexan, Transparent	PC Lexan, Transparent
Dimension	54 × 39.2 × 141.3 mm	54 × 39.2 × 141.3 mm	54 × 39.2 × 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	BAM042F
Type	M12 × 45 mm	M12 × 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