BALLUFF

Compact I/O modules with expansion port

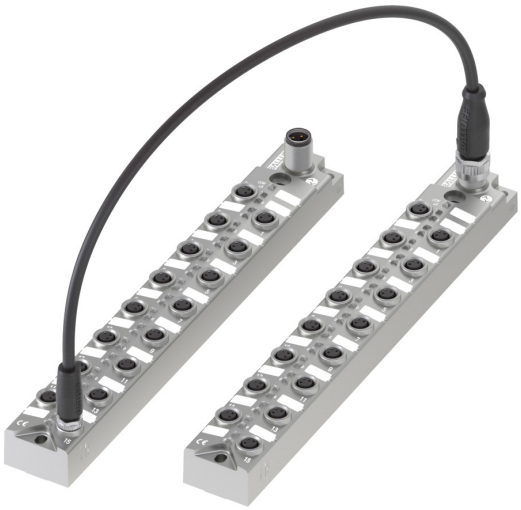
IO-LINK SENSOR/ACTUATOR HUB WITH M8 CONNECTIVITY

Reduce costs with Balluff IO-Link sensor/actuator hubs

Shielded cables and interface cards run up your field installation costs. Help is here with IO-Link sensor/actuator hubs with M8 connectivity. These modules save you around 30 % in hardware costs compared with traditional fieldbus devices. If you consider the additional savings from bus and power supply cables, the cost savings are as high as 40 %. This is because one economical M12 standard sensor cable is all you need for connecting to the IO-Link master. Another advantage of all IO-Link hubs: you need only one bus address to variably collect sensor signals from up to 20 meters away. It's the greatest possible efficiency!

Features

- Input module for 16 inputs and configurable I/O module with 16 inputs/outputs
- M8 connectivity
- Compact, space-saving design
- For harsh conditions: rugged metal IP67 housing
- Expansion port for connecting an additional IO-Link hub
- Easily visible status LEDs



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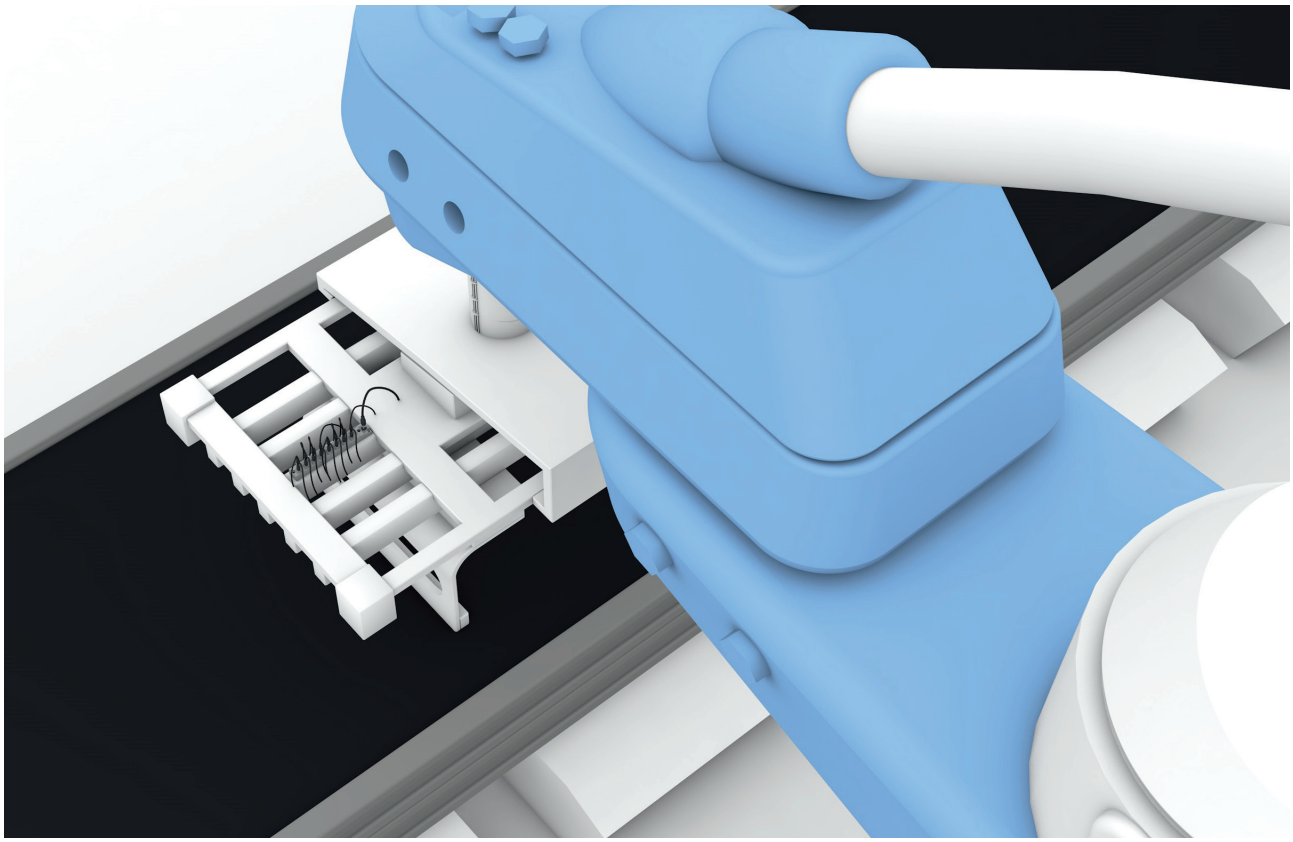
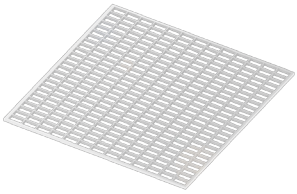


IO-LINK
METAL MODULES

	BNI00AY	BNI00AU
Interface	IO-Link	
Type	16 × DI	16 × DI/DO
Connection IO-Link	1 × M12 male, 4-pole, A-coded	
Connection I/O ports	16 × M8 female, 3-pole, A-coded	
Operating voltage	18...30.2 V DC, per EN 61131-2	
Current consumption without load (extension off)	≤ 90 mA	
Max. load current (Pin 1)	Max. 200 mA (temperature-dependent)	
Max. load current per output (Pin 4)	–	Max. 300 mA (temperature-dependent)
Digital inputs	PNP, Type 3	
Degree of protection per IEC60529	IP67*	
Ambient temperature/storage temperature	–5...+70 °C/–25…+70 °C	
Dimension (L × W × H)	30 × 220 × 32.8 mm	
Weight	Approx. 402 g	Approx. 406 g
Housing material	Nickel-plated die-cast zinc	
IO-Link version	1.1	
Operating mode (3-wire)	COM2 (38.4 kBaud)	
Process data length	2 input byte	2 input byte, 2 output byte
Minimum cycle time	4.1 ms	4.5 ms
Extension port	Yes	Yes

*when connected

ACCESSORIES



	BAM01C1	BAM02MK	BAM02NY
Description	Protective nut for junction blocks M8	Earthing straps	Labeling set for the marking of network module

CONNECTIVITY

2 M PUR CABLE	BCC039M	BCC03MF
5 M PUR CABLE	BCC039P	BCC03MJ
10 M PUR CABLE	BCC06WR	BCC08L1
Connection 1	M12 female, straight, 5-pole, A-coded	M12 female, straight, 5-pole, A-coded
Connection 2	M12 male, straight, 4-pole, A-coded	M8 male, straight, 3-pole, A-coded

www.balluff.com

Balluff GmbH · Schurwaldstrasse 9 · 73765 Neuhausen a. d. F. · Germany · Phone +49 7158 173-0 · Fax +49 7158 5010 · balluff@balluff.de

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