BALLUFF

Converting analog signals into IO-Link signals and saving costs in the process

IO-LINK CONVERTER FOR ANALOG IN- AND OUTPUT SIGNALS

In most equipment and machines, analog signals make up around ten percent of the total data volume but connecting and incorporating analog input signals is an expensive proposition. The installation requires shielded cables and the controller needs expensive multi-channel input modules.

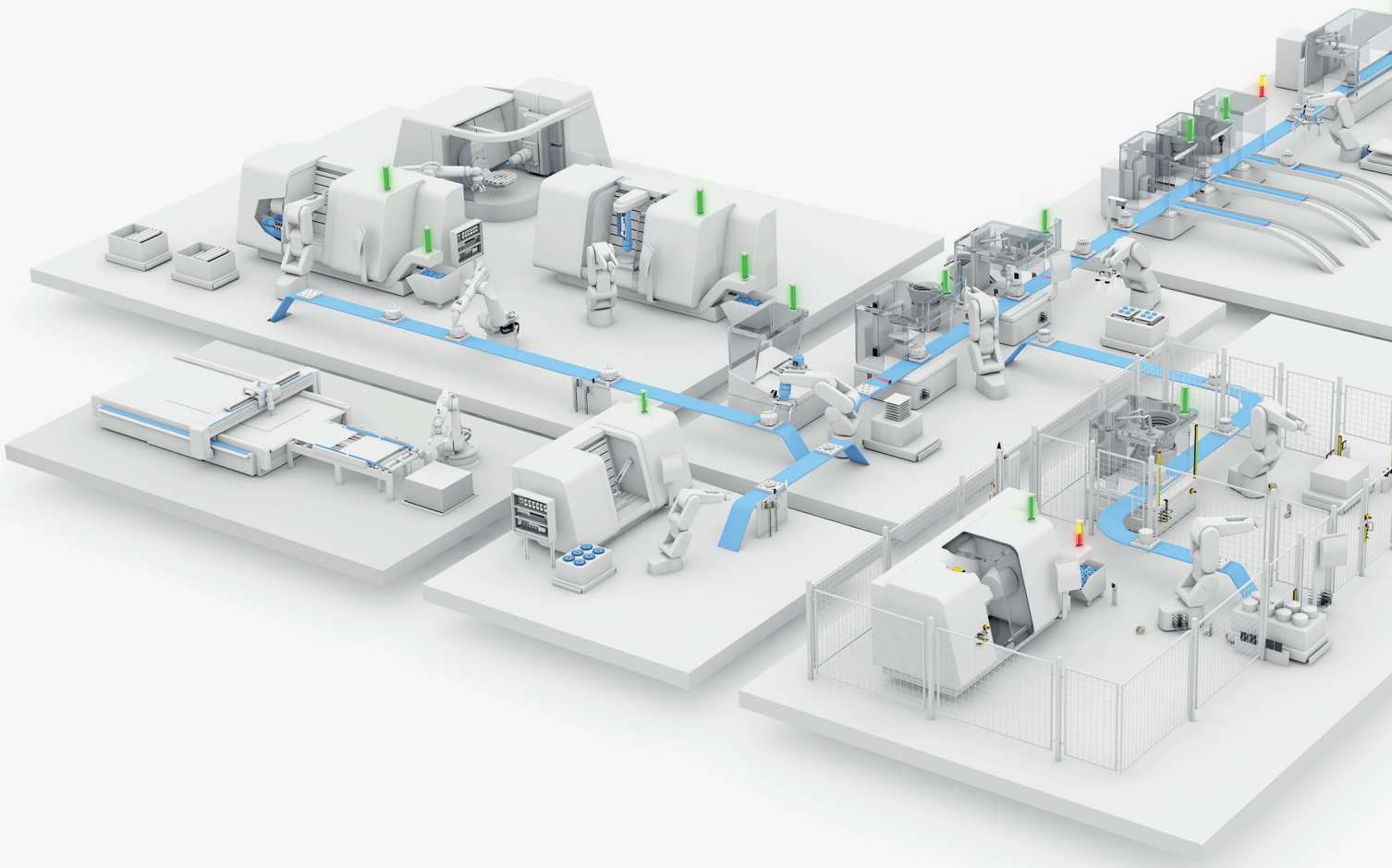
Our IO-Link converters are the remedy. They provide considerable cost reduction potential for systems with limited analog value occurrence. Instead of expensive shielded cables, you can simply use unshielded 3-conductor cables. The signal neutrality of IO-Link master modules combined with the IO-Link converters gives you maximum signal variance compatibility.

Using our IO-Link converters, you can mix different input/output/current- and voltage signals on one module.

Features

- Convert analog in-/output signals into IO-Link
- Configurable voltage/current, Pt sensor or thermocouple
- Various current/voltage interfaces available (0...10 V, 5…10 V, –10…+10 V, 0…5 V, –5…+5 V, 0...20 mA, 4…20 mA)
- Configurable resolution (10…16 bits)
- High protection rating for harsh conditions

CE cULus LISTED IO-Link



IO-LINK
ANALOG
CONVERTER




	BNI00C9	BNI00C8	BNI00C6	BNI00C7
Interface	IO-Link			
Type	1 × analog input	1 × analog output	1 × analog in-/output	1 × analog input (temperature)
Operating voltage U_B	18...30.2 V DC, per EN 61131-2			
Connection IO-Link	1 × M12 male, 4 pin, A-coded			
Connection analog port	1 × M12 female, 5 pin, A-coded			
Voltage interfaces	0...10 V, 5...10 V, –10...+10 V, 0...5 V, –5...+5 V			
Current interfaces	0...20 mA, 4...20 mA			
Current draw without load	≤ 60 mA			
Max. load current (Pin1) sensors	≤ 200 mA	–	≤ 200 mA	≤ 200 mA
Max. load current (Pin1) actuators	–	≤ 1.4 A	≤ 1.4 A	–
Resolution	Configurable (10...16 Bit)			
Degree of protection per IEC 60529	IP67*			
Operating temperature T_a	–5...70 °C			
Storage temperature	–25...+70 °C			
Dimensions (Ø × L)	M18 × 135.5 mm			
Weight	Approx. 105 g			
Housing material	Stainless steel (1.4305), PTFE			
IO-Link version	1.1			
Operating modes (3-wire)	COM2 (38.4 kBaud)			
Process data length	3 byte input	2 byte output	3 byte input, 2 byte output	3 byte input
Process data cycle time	10 ms			

*when connected

ACCESSORIES

	BAM037J			
Description	Mounting cuff Ø 18 mm			
Housing material	Stainless steel (1.4404)			

CONNECTIVITY




	BCC0372	BCC0374	BCC0C8J	BCC0C00
Connector 1	M12 female, 5 pin	M12 female, 5 pin	M12 female, 5 pin	M12 female, 5 pin
Connector 2	M12 male, 3 pin	M12 male, 3 pin	M12 male, 4 pin	M12 male, 4 pin
Cable	2 m PUR cable	5 m PUR cable	0.6 m PUR cable, shielded	2 m PUR cable, shielded

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