BALLUFF

Flexibility with generous detection range

INDUCTIVE IO-LINK SENSORS WITH EXTENDED SWITCHING DISTANCE

Inductive sensors with IO-Link let you teach the switching distance flexibly and enable application-specific setup. The output signal can also be set in various ways, so that you can use the sensor, for example, as normally open or normally closed. With a switching distance of up to 11 mm, it makes detection possible where more traditional sensors fail.
In addition, the sensor can output warning signals when the target leaves the detection range or comes too close to the sensor. This allows you to predict collisions and avoid them before they happen.

The IO-Link sensor also supports your condition monitoring. Using parameters such as the sensor's internal temperature or overvoltage/undervoltage detection and an operating hours counter, it is possible to draw conclusions about the operating conditions.

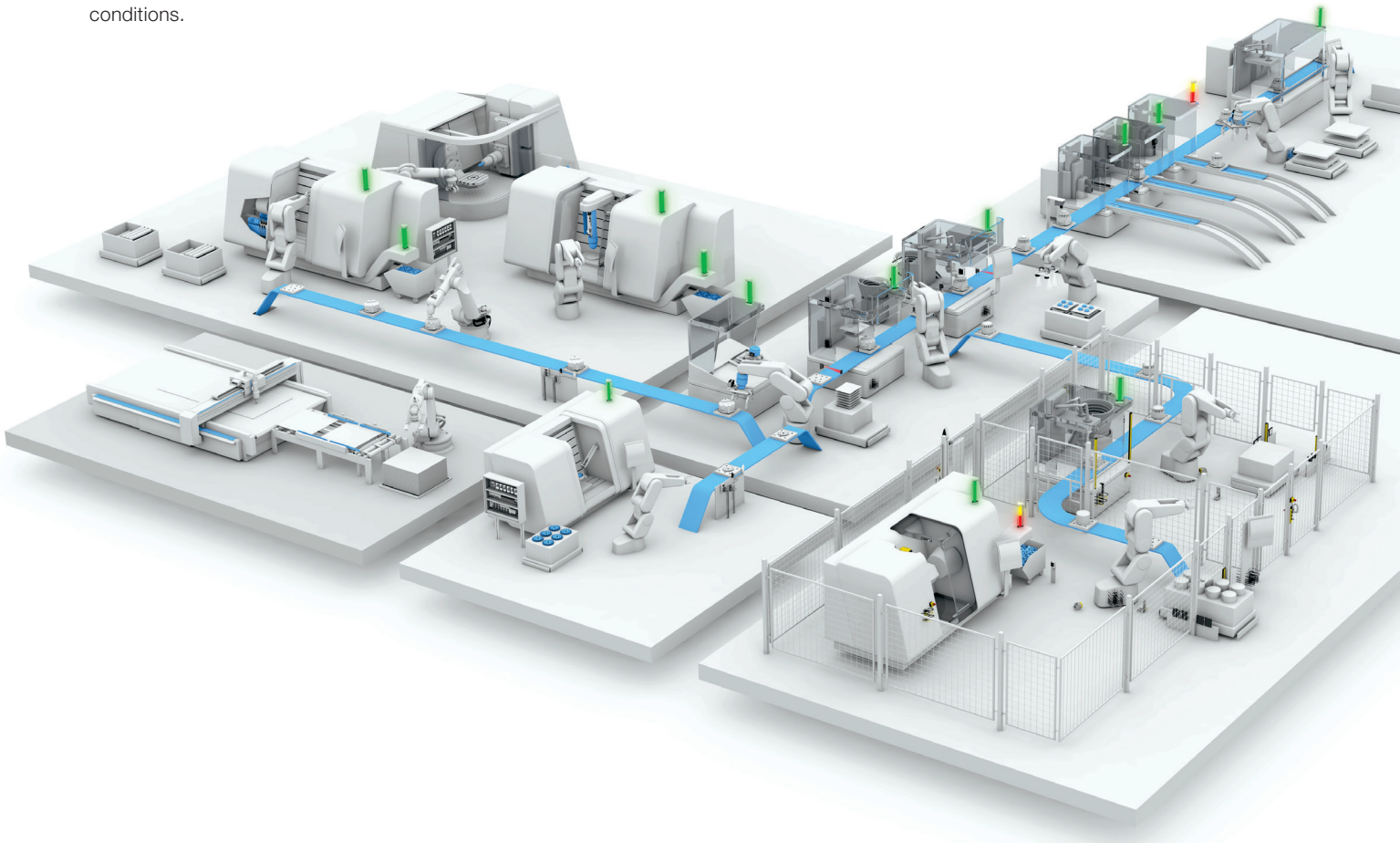
No IO-Link available? You can use the optional teach adapter to parameterize many functions even without IO-Link.

Features

- Long switching distances up to 11 mm, can be taught as needed
- Use in IO-Link or SIO mode
- Configurable switching output/switching logic
- Condition monitoring functions



CE cULus LISTED EAC IO-Link



INDUCTIVE SENSORS






	BES05T2	BES05T3	BES05T8	BES05T9
Dimension	Ø 12 × 60 mm	Ø 12 × 50 mm	Ø 12 × 60 mm	Ø 12 × 50 mm
Style	M12 × 1		M12 × 1	
Installation	quasi-flush		quasi-flush	
Range	3.5...7 mm		7...11 mm	
Interface	IO-Link 1.1		IO-Link 1.1	
Switching output	2 × PNP/NPN/push-pull NO/NC		2 × PNP/NPN/push-pull NO/NC	
Switching frequency	500 Hz		500 Hz	
Housing material	Brass, coated		Brass, coated	
Material sensing surface	PBT		PBT	
Connection	Connector, M12 male, 4-pin		Connector, M12 male, 4-pin	
Operating voltage U_B	18...30 V DC		18...30 V DC	
Ambient temperature	–25...70 °C		–25...70 °C	
IP rating	IP68		IP68	
Approval/conformity	CE, cULus, EAC		CE, cULus, EAC	

ACCESSORIES






	BAE00E5	BNI0073	BNI005H	BNI008M
Description	Teach adapter	IO-Link communication adapter	Active splitter, Profinet I/O, housing material die-cast zinc	Active splitter, Ethernet/IP, housing material PPS

CONNECTIVITY



1 M CABLE	BCC039K
2 M CABLE	BCC039M
5 M CABLE	BCC039P
Connection 1	M12 female, straight, 5-pole, A-coded
Connection 2	M12 male, straight, 4-pole, A-coded
Cable	PUR black, drag chain compatible

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