BALLUFF

Measure linear position continuously and without contact

BIP04 INDUCTIVE POSITIONING SYSTEM

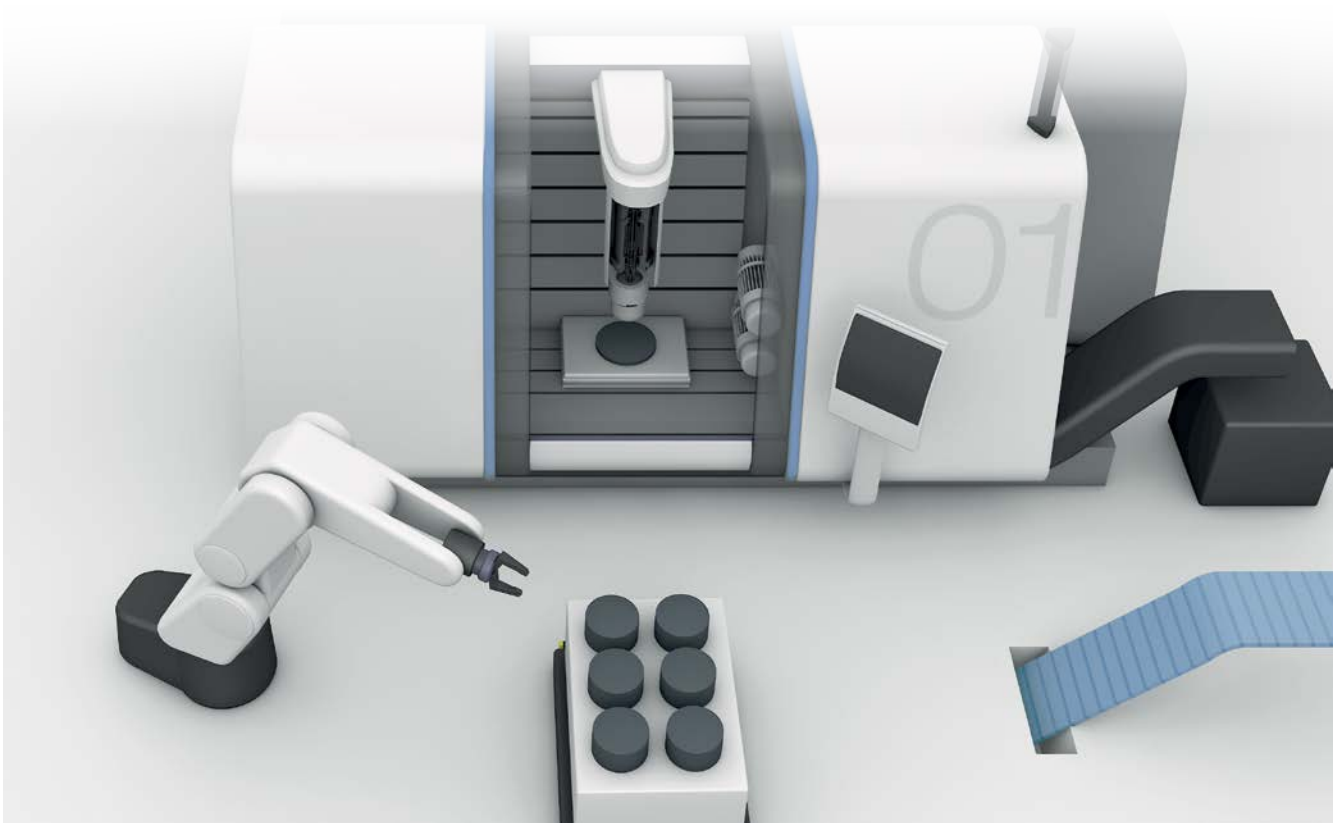
Modern machining centers are complex compared to those used in traditional metal working applications. The variety of tool holders and axes often represent a hurdle when you need to handle changing processes, ensure simultaneous processing of workpieces and be truly efficient.

Compact, precise tool spindles, clamping cylinders and tool changers on a machining center play a central role in the work process. Reliable and wear-free monitoring of the clamping process in the machine system is critical. Meet this demanding challenge simply with the new BIP04 inductive positioning system. The non-contact measuring system in the fully potted housing will ensure the highest process reliability and automation quality, even in the harshest industrial environments.

Features

- High applicability: 30 × 40.5 × 18 mm form factor allows use in tight spaces
- Flexible in usage: teachable measuring range up to 17 mm
- Control system compatibility: analog voltage and current output as well as IO-Link interface
- Reliable results: high linearity and precise repeat accuracy
- High signal stability: low temperature drift
- Secure integration: excellent electromagnetic compatibility

IO-Link



BIP04 INDUCTIVE POSITIONING SYSTEM



	BIP001M	BIP001K	BIP001L
Dimensions	30 × 18 × 40.5 mm	30 × 18 × 40.5 mm	30 × 18 × 40.5 mm
Output signal	IO-Link	0…10 V	4…20 mA
Measuring range	0…17 mm	0…17 mm	0…17 mm
Non-linearity max.	±250 µm	±250 µm	±250 µm
Repeat accuracy	±40 µm	±50 µm	±50 µm
Temperature drift max. from end value	±3 %	±3 %	±3 % (from –10…70 °C)
Ambient temperature	–25…+70 °C	–25…+70 °C	–25…+70 °C
Degree of protection per IEC 60529	IP67	IP67	IP67
Connection	0.5 m PUR cable with M12 connector	2 m PUR cable, shielded	2 m PUR cable, shielded

ACCESSORIES


	BAM02RW	BAE00T3		
Description	Target	Programming device for BIP001K and BIP001L		
Dimensions	27 × 10 × 28 mm	96.5 × 31.3 × 61 mm		

INDUSTRIAL NETWORKING




	BNI006A	BNI0077	BNI005H	BNI008C
Description	Network modules for Ethernet/IP	Network modules for EtherCAT	Network modules for Profinet	Network modules for CC-Link IE-Field
Digital inputs	16 × PNP, Type 2	16 × PNP, Type 2	16 × PNP, Type 2	16 × PNP, Type 3
Digital outputs	16 × PNP	16 × PNP	16 × PNP	16 × PNP
Auxiliary interfaces	8 × IO-Link	8 × IO-Link	8 × IO-Link	8 × IO-Link

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