

**Intelligent linear feedback –
measure positions continuously and without contact**

BMP MAGNETIC FIELD POSITIONING SYSTEM

The Smart Factory, with its complex production lines, affords high flexibility. It can be difficult to integrate the required process and product quality while demands and specifications are changing continuously.

Keeping a constant eye on the process becomes critical. Sensors in grippers, stamping machines and tool changers play a critical role in the process. They ensure the essential speed of action, precision and flexibility.

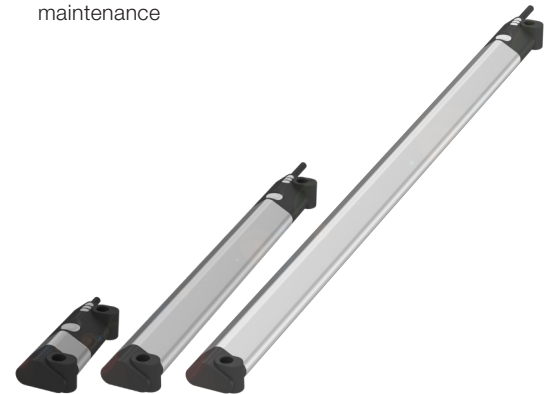
The new BMP magnetic field positioning system from Balluff lets you monitor continual work processes reliably and without wear. This helps you stay in control of various processes and ensures simultaneous processing of workpieces all while remaining energy-efficient.

The result is high process reliability and automation quality that works in a variety of applications: whether you need to control assembly in the automobile industry, or quickly adapt to changing formats and process parameters in the packaging industry, the new magnetic field positioning system provides reliable, accurate results.

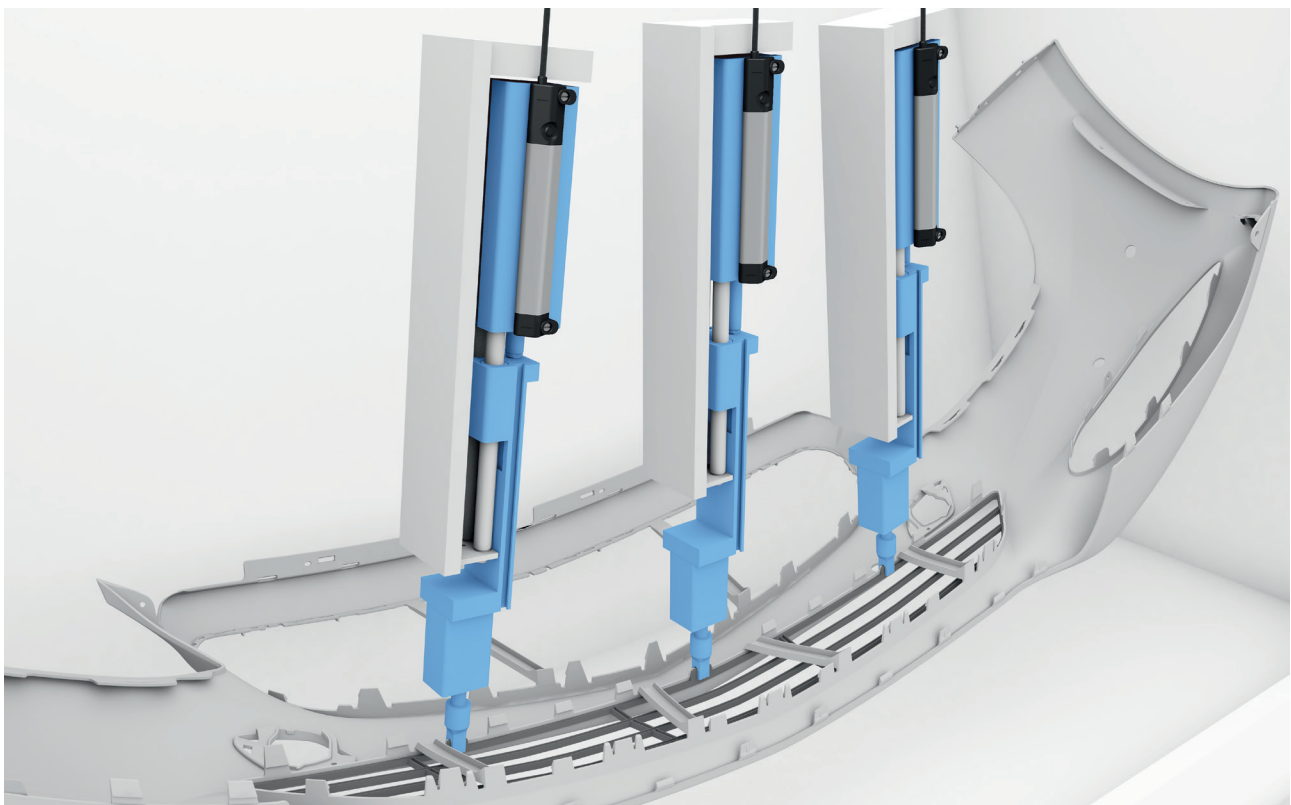
Features

- Modular concept for greater flexibility – measuring range up to 256 mm
- Wide transparency – continuous checking of piston position in tight spaces with analog voltage and current output as well as IO-Link interface

- Reliable results – application-relevant linearity and repeat accuracy
- High process security – low temperature drift and high quality electromagnetic compatibility
- Ideal for Industry 4.0 – format change, condition monitoring and predictive maintenance



CE EAC cRU[®] US IO-Link



BMP MAGNETIC
FIELD POSITIONING
SYSTEM



MEASURING RANGE	32 MM	BMP0007	BMP000L	BMP0008
	64 MM	BMP0005	BMP000M	BMP0006
	96 MM	BMP0003	BMP000N	BMP0004
	128 MM	BMP0001	BMP000P	BMP0002
	160 MM	BMP000A	BMP000R	BMP0009
	192 MM	BMP000E	BMP000T	BMP000C
	224 MM	BMP000H	BMP000U	BMP000F
	256 MM	BMP000K	BMP000W	BMP000J
Communication	IO-Link 1.1		IO-Link 1.1	IO-Link 1.1
Analog output	Analog voltage 0...10 V, analog current 4...20 mA, switchable		Analog voltage 0...10 V, analog current 4...20 mA, switchable	Analog voltage 0...10 V, analog current 4...20 mA, switchable
Operating voltage	15...30 V DC		15...30 V DC	15...30 V DC
Resolution	≤ 1 µm (IO-Link), 12 bits (analog)		≤ 1 µm (IO-Link), 12 bits (analog)	≤ 1 µm (IO-Link), 12 bits (analog)
Non-linearity typ.	±250 µm		±250 µm	±250 µm
Temperature drift max. from end value	±0.3 %		±0.3 %	±0.3 %
Repeat accuracy	±100 µm		±100 µm	±100 µm
Approval/conformity	CE, EAC, cURus		CE, EAC, cURus	CE, EAC, cURus
Ambient temperature	-25...+85 °C		-25...+85 °C	-25...+85 °C
IP rating per IEC 60529	IP67		IP67	IP67
Housing material	PA12, aluminum		PA12, aluminum	PA12, aluminum
Connection type	0.5 m PUR cable with M8 male, 4-pin		0.5 m PUR cable with M12 male, 4-pin	2 m PUR cable

ACCESSORIES



	BAM0383	BAM0382	BAM0381	BAM037Z	BAM039T
Use	Mounting set for T-slot	Mounting set for C-slot	Mounting screws	Holder for round cylinders	Position sensor