BALLUFF

Smart Automation and Monitoring System

DIGITAL POSITION INDICATOR WITH INTUITIVE USER INTERFACE

SAMS (Smart Automation and Monitoring System) stands for Balluff's comprehensive automation philosophy. On the one hand, the Smart Automation and Monitoring System comprises a large number of additional functions and additional information for each individual component while, on the other hand, it is characterized by its uniform and standardized operating, configuration and diagnosis concept.

With the digital position indicator from Balluff you can handle great product variety quickly and reliably while processing ever shrinking lot sizes. Our position indicator offers semi-automated format changing with an exceptionally friendly user interface. This, combined with its clearly organized operating and configuration concept, increases the flexibility and availability of your machines.
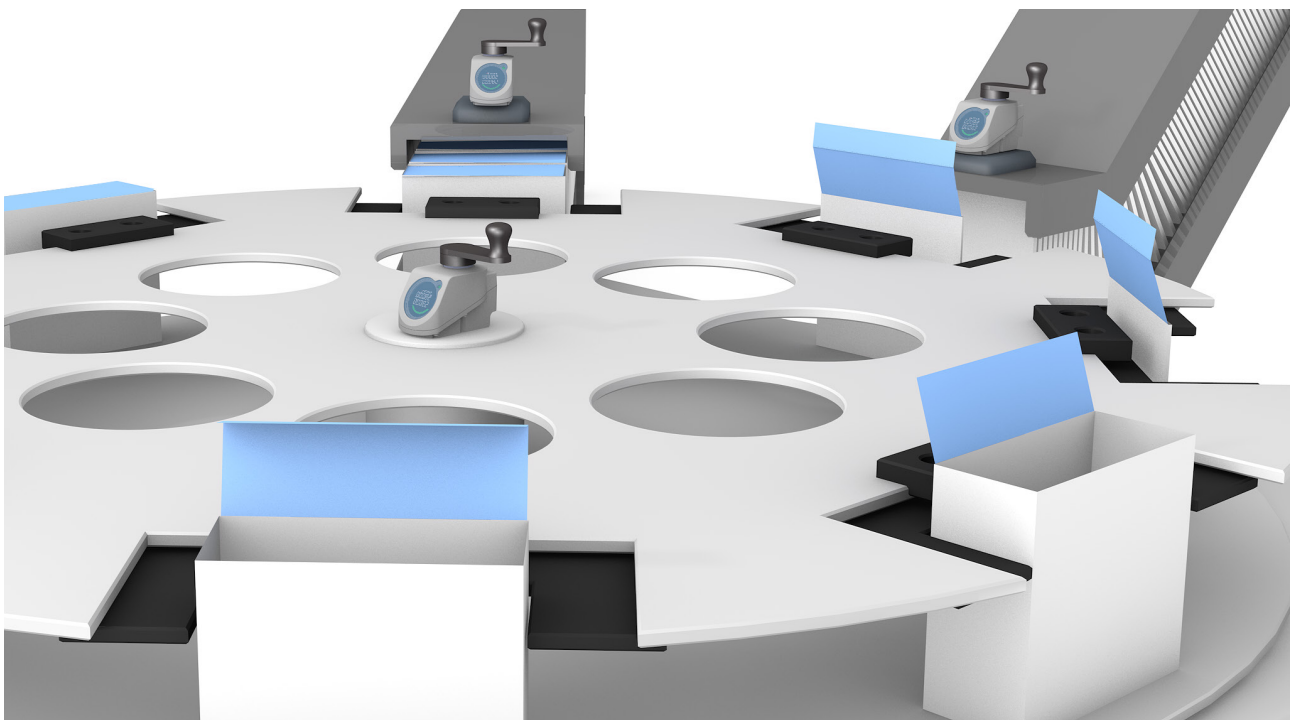
The guided format changing is simple and reliable to execute. Additionally, you are supported by the position indicator. This shows you what nominal value needs to be achieved for the format change. When the spindle is turned, you are guided in detail by a runlight and can check the values on the digital indicator.

This straightforward user guiding and accurate setting of the format increases your efficiency. Not only are format changes made faster, the startup time and machine downtimes are significantly reduced. Bottom line: you keep the entire process under control, reduce scrap and save real money.

Good to know: our digital position indicator exceeds IP69K standards and is washdown capable.

Features

- Expanded IO-Link functionality using SAMS (Smart Automation and Monitoring System)
- Smart features, such as internal temperature and relative humidity monitoring
- Avoid errors through simple user interface
- Easy to integrate via washdown design

CE   IO-Link

DIGITAL POSITION INDICATOR

	BDG0291	BDG0292
Type	With numerical display	Without numerical display
Resolution	14000 increments/revolution	14000 increments/revolution
Repeat accuracy	±1 increment	±1 increment
Absolute non-linearity	±1°	±1°
Rotation speed with external power supply	≤ 600 rpm	≤ 600 rpm
Connection	M12 male, 4 pin	M12 male, 4 pin
Output	Switching output PNP/NPN configurable	Switching output PNP/NPN configurable
Interface	IO-Link 1.1	IO-Link 1.1
Baud rate	COM3 (230.4 kBaud)	COM3 (230.4 kBaud)
Housing material	Vestamid, Trogamid, stainless steel	Vestamid, Trogamid, stainless steel
Dimensions	60 × 106.3 × 74 mm	60 × 106.3 × 74 mm
Ambient temperature	−20…+85 °C	−20…+85 °C
IP rating	IP68, IP69K	IP68, IP69K
Approval/conformity	CE	CE

Condition monitoring features

	BDG0291	BDG0292
Internal temperature	■	■
Vibration	■	■
Operating hours counter	■	■
Signal quality	■	■
Inclination	■	■
Internal humidity	■	■

ACCESSORIES

	BAM03KE
Description	14 mm reducing sleeve

CONNECTIVITY

5 M CABLE	BCC039P	BCC03AH	BCC0JT0
10 M CABLE	BCC06WR	BCC0AFE	BCC0JT1
20 M CABLE	BCC0E9W	BCC0EYP	BCC0JT3
Connection 1	M12 female, straight, 5-pin, A-coded	M12 female, angled, 5-pin, A-coded	M12 female, straight, 5-pin, A-coded
Connection 2	M12 male, straight, 4-pin, A-coded	M12 male, straight, 4-pin, A-coded	M12 male, straight, 4-pin, A-coded
Cable	PUR black, 5 m, drag chain compatible	PUR black, 5 m, drag chain compatible	TPE-V gray, 5 m