Balluff's New Magnetic Encoders Easily Integrate with Siemens Motion Control Systems

Two versions feature DRIVE-CLiQ interface and plug-and-play installation

Florence, Kentucky (March 13, 2020) — Balluff's new absolute magnetic linear encoders with Siemens Drive-Cliq interface are designed to integrate perfectly into Siemens motion controller environments.

Plug-and-play installation makes incorporating them into the drive system easy. The controller automatically detects the sensor and its basic settings. Its automatic status monitoring continuously checks the measurement quality, detecting any mechanical position shift during operation.

These two Siemens certified versions — BML085L and BML08MH —join a robust family of absolute magnetic encoders that deliver absolute accuracy of position when end-of-travel is required. They provide 1 μm position resolution and a stroke length of up to 48 m. Equally impressive is their system accuracy of +/- 12 μm and high read distance of 1.3 mm.

Additionally, the BML08MH version has an input for a temperature sensor, so that data can also pass through to the controller.

Key features:

- 1 μm position resolution
- Stroke length of up to 48 m
- System accuracy up to +/- 12 μm
- High read distance of 1.3 mm

New Balluff Distance Sensors Combine IO-Link, Voltage, Analog

Latest models offer multiple ranges and ambient light suppression

Florence, Kentucky (March 27, 2020) — The newest additions to Balluff's line of distance sensors feature selectable modes that allow users to choose between IO-Link, voltage (0…10 V or 1…10 V), or analog (4…20 mA) outputs.

The two new variations — the BOD002M with a 50 to 100 mm working distance and a resolution down to 10 μm, and the BOD002N with a 50 to 650 mm working distance and a resolution down to 100 μm — combine the output modes of three previous models into one. Other improvements include an upgrade to IO-Link v1.1, an OLED display instead of an LCD, and a class 1 laser.

"With 10 μm of resolution and the ability to scale, these are ideal for contour detection, distance determination and orientation monitoring in assembly applications. The tight light spot makes these great for error proofing since it really lets you get down to small components," said Jack Moermond, engineering partner manager. "Just about anything that needs to be measured can be done with these."

The sensor provides ambient light suppression as well as filtering to eliminate possible interference, which is especially helpful when working with challenging targets such as those with reflective or black material. The sensor also includes a precision mode for high accuracy at reduced processing speed. Setting the various modes and functions is easy through IO-Link or, alternately, with push buttons and the integrated display.

Key features:

- 50…100 mm or 50…650 mm working range
- Resolution down to 10 µm
- Visible laser for ease of installation
- Class 1 laser – no additional protection measures needed
- Comprehensive IO-Link added functions

Learn more at: www.balluff.com

About Balluff Inc.

Balluff Inc. is the U.S. subsidiary of Balluff GmbH, Neuhausen, Germany. Balluff is a leading supplier of networked IO-Link control system architectures that unlock the potential of the IIoT and Industry 4.0. Balluff offers a wide range of intelligent IO-Link and industrial Ethernet sensors in a variety of technologies including inductive, photoelectric, capacitive, and magnetic as well as magnetostrictive linear position sensors, magnetic tape linear encoders, industrial RFID systems, and industrial vision systems. Balluff provides cost-saving, process-enhancing solutions to machine builders and manufacturers to control, regulate, automate, assemble, position, and monitor manufacturing, assembly, and packaging sequences. Industries served include: automotive, packaging, food processing, beverages, tire, primary metals, conventional and alternative energy, semiconductor, plastics, and fluid power.