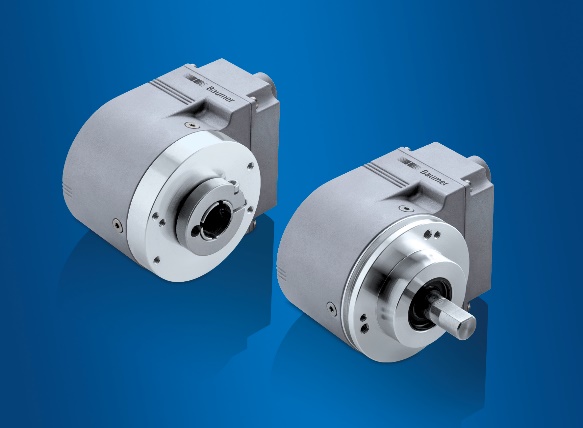
# Press Release

**Space saving by short installation depth:**

**The new absolute encoders EAL580 with EtherCAT**

(2017/11/14) Demanding applications in machine and plant construction, for example in handling and assembly, graphic and packaging machines, require high precision in real-time with minimal cycle time and jitter. With the new EAL580 EtherCAT series, Baumer expands its portfolio of compact Ethernet absolute encoders. With 62.5 μs cycle time, these are perfectly suited for fast and high-precision applications. With an installation depth of only 47 mm, they are also unmatched in terms of compactness.

The EAL580 series with EtherCAT is developed and certified according to the latest CANopen standard 4.0.2. Commissioning is simple and intuitive, especially with the control software TwinCAT. The assignment of the device address is automatic and time-saving. With a long term durable IP67-encapsulated button, the preset value can be set directly on the device. Thanks to the support of File over EtherCAT (FoE), firmware extensions can be made simply and directly via the control.

The flexible operating modes Free Run, Synchronous Mode and Distributed Clocks allow an optimal adaptation to the application. Thanks to dynamic PDO mapping it is possible to select predefined combinations of cyclic data. In addition to cyclic data such as position and speed, diagnostic values ​​such as, for example, device temperature and number of operating hours, are also output for the new devices. With the gear factor or rotary axis function and the comfortably usable endless operation, the machine control is relieved from complex calculations.

With the smallest installation depth in the class of 58 mm Ethernet rotary encoders, the compact design of the EAL580 series is not only very economical, but also offers maximum freedom for machine design. Due to the lack of need for angle plugs, particularly space-saving designs can be realized, and additional costs for angle plugs are saved. Thanks to the radial plug outlet, narrow bending radii are a thing of the past.

The EAL580 is the only compact 58 mm Ethernet encoder with a hollow shaft and an optional A or B-sided clamping ring. As a result, it is optimally integrated into a drive train and saves complicated additional constructions. In addition to EtherCAT, the EAL580 also supports PROFINET in its compact design. EtherNet/IP is already being implemented and will be available soon.

For more information about the new encoder series EAL580 EtherCAT: www.baumer.com/press

Photo: The most compact Ethernet absolute encoders are extremely space-saving and perfect for fast and precise positioning.

Number of characters (with spaces): approx. 2300

Text and picture download at: [**www.baumer.com/press**](http://www.baumer.com/press)

**Baumer Group**

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