ED series EtherCAT Terminals

More options for a smart I/O upgrade

Beckhoff is expanding the ED series to include the EC1101 EtherCAT Coupler with ID switches, plus a range of EtherCAT Terminals for digital I/Os and high-speed counting tasks. The series can be used to implement a variety of topologies and wire standard signals without requiring tools, using push-in connection technology. At the same time, the new components remain fully mechanically compatible with the proven EtherCAT Terminals in the EL series.

The EC1101 EtherCAT Coupler links the attached terminals to the network via the E-bus. The angled RJ45 sockets enable space-saving Ethernet cabling in the control cabinet. The integrated ID switches can be used to uniquely address a group of EtherCAT devices. This allows the group to remain identifiable regardless of its position in the network. As a result, modular machines with optional or interchangeable components can be set up using a range of different topologies without needing to reconfigure the system whenever changes are made.

Beckhoff is also expanding its lineup of EtherCAT Terminals for the ED series. At SPS 2026, the company will introduce various new models for digital input and output, and for high-speed counting tasks. In terms of the signals, the ED1004 and ED1808 EtherCAT Terminals acquire four and eight digital 24 V DC signals respectively using 2-wire connection technology, while the ED1104 model acquires four channels using 2- or 3-wire connection technology for direct sensor connection. The ED1504 EtherCAT Terminal combines four 32-bit up/down counters with digital signal acquisition and counts pulses up to 100 kHz directly within the terminal. This reduces the load on the control system

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and ensures reliable acquisition of fast signals. Depending on the configuration, the multifunctional digital inputs can be used to set the counting direction and lock or reset the counters. Alternatively, this model can be used as an input terminal with up to eight digital channels. The ED2004 and ED2808 EtherCAT Terminals, each rated at 0.5 A and which have four and eight short-circuit proof channels respectively, are available for output purposes.

Since 2003, users have benefited from the versatility, scalability, and user-friendliness of Beckhoff EtherCAT Terminals. The ED series continues this success story with a modernized hardware design. The push-in connection technology allows rigid conductors or conductors with ferrules to be inserted without tools, thus accelerating installation and commissioning. The proven form factor – 12 or 24 mm wide and 100 mm high – remains unchanged. This allows EtherCAT Terminals from the ED and EL series to be used together in the same I/O segment.

➔ www.beckhoff.com/ed

Press picture:



Picture caption:
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