Press release

BECKHOFF New Automation Technology

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New EJ series of EtherCAT plug-in modules

More performance, more transparency, more speed

Beckhoff is showcasing three new EJ-series EtherCAT plug-in modules for the digital signal level at the SPS exhibition. The modules provide 2 A per output channel, 16 outputs with advanced channel-specific diagnostics, and highly precise acquisition of high-speed input signals. As the EtherCAT plug-in module portfolio covers virtually all signal types used in automation, users can customize their I/O solutions to meet specific application requirements.

Beckhoff's EJ series of EtherCAT plug-in modules offer an I/O solution for efficient series production involving medium and high volumes. Although their electronics are based on those of the proven EtherCAT terminals, these modules are plugged directly into an application-specific signal distribution board. There is no need for single-wire assembly, and pre-assembled cable harnesses and coded connectors minimize the risk of errors. The range of EtherCAT plug-in modules continues to grow steadily in response to the technological needs of the market.

The EJ2034 module switches four channels, each rated at 2 A (the existing 24 V standard outputs in the EJ series deliver 0.5 A), enabling valves, relays, solenoid actuators, and other loads with higher current requirements to be operated without additional coupling relays or power stages. This reduces the number of components in the control cabinet, simplifies wiring, and provides greater flexibility in machine design. For very high channel density, the EJ2819 module is available with 16 outputs each rated at 0.5 A. Both output modules report faults to the

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controller on a channel-by-channel basis. For the EJ2819, diagnostics range from short circuits and open circuits to overtemperature and undervoltage. Because the diagnostic data is available directly in the controller, troubleshooting is noticeably faster. Maintenance becomes easier and downtime is reduced.

The 4-channel EJ1264 input module is designed for very fast 24 V signals and captures even brief events with an accurate timestamp. An input filter with a typical response time of less than 1 µs, oversampling up to 1,000 times the bus cycle time, and synchronization via distributed clocks enable applications with stringent timing requirements to be supported.

Measuring 12 × 55 × 66 mm, the EJ series of EtherCAT plug-in modules are almost 50% smaller than EtherCAT terminals in relation to volume. Coding pins prevent mismating. The EJ-series portfolio ranges from digital and analog signals through encoder evaluation and communication, and even includes compact drive technology and TwinSAFE. Users can customize their I/O level precisely in line with the application. Unit costs are reduced, delivery times speed up, and proprietary know-how is protected.

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Press picture:



Picture caption:

The new EJ2034, EJ2819, and EJ1264 EtherCAT plug-in modules expand the digital signal layer on the signal distribution board to include 2 A outputs, channel-specific diagnostics, and high-speed inputs.

Press kit:

www.beckhoff.com/media/downloads/press/2026/pr362026_beckhoff.zip

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