Beckhoff — EK EtherCAT Couplers

EK1300



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The **EK1300** EtherCAT coupler is produced by Beckhoff and belongs to the EK EtherCAT Couplers series. As a compact bus interface, it connects Beckhoff I/O terminals to an EtherCAT network and translates field signals into the high-speed, real-time Ethernet domain used in automated machines and process equipment. The unit allows a control cabinet to expose distributed digital and analog points to a PLC while maintaining the deterministic cycle times established by the EtherCAT master.

The coupler receives **24 VDC** from a control cabinet power source; this voltage powers its internal logic and passes through to the attached terminals. Up to **2000 mA** is available on the E-bus, allowing several terminal slices to draw logic current without an additional feeder. Network traffic uses **100 MBit Fast Ethernet (100BASE-TX)**, providing the low device jitter associated with EtherCAT segments. The network interface includes **two shielded, P-coded M8 sockets** for incoming and outgoing connections in a continuous line topology. Front-mounted status LEDs indicate link, run, and error conditions for convenient diagnostics. The housing is rated **IP20**, so the coupler must be installed in an enclosure that prevents access to hazardous parts and protects it from suitable solid objects.

The spring-contact interface uses **3 power pins** to forward field power to downstream terminals. Each line can carry up to **10 A** at a maximum of **24 V**, allowing connected actuators or sensors to share the same power interface without separate distribution blocks. Internal isolation separates the field supply from the logic area, helping prevent ground loops between the two circuits. Cyclic and acyclic telegrams conform to the **EtherCAT Device Protocol**, supporting communication with standard TwinCAT systems and compatible third-party masters. The

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coupler does not support Hot Connect, so it cannot dynamically reconnect network segments during operation. It also has no onboard PLC functionality, leaving application execution and machine-control tasks to the central controller.

Specifications

E-bus Max Current:	2000 mA	**Hotconnect Support:**	No	**Integrated Plc:**	No
Network Connection:	2 x M8 sockets, shielded, P-coded	**Network Protocol:**	EtherCAT Device Protocol	**Network Technology:**	100 MBit FastEthernet (100BASE-TX)
Power Contact Count:	3	**Power Contact Max Current:**	10 A	**Power Contact Max Voltage:**	24 V
Protection Class:	IP20	**Supply Voltage:**	24 VDC	**Last Verified:**	11/23/2026 9:40 AM

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