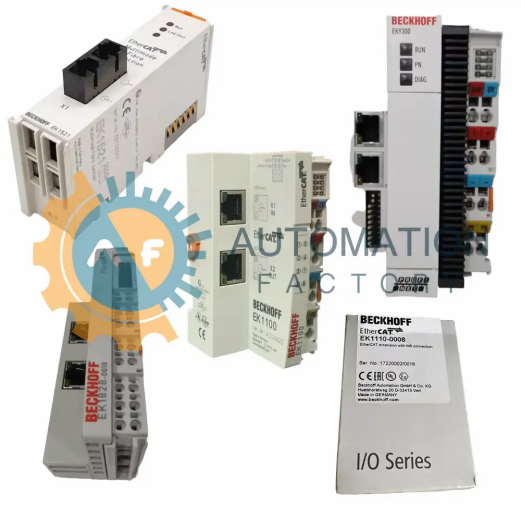
Beckhoff — EK EtherCAT Couplers

EK1110-0008



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The **EK1110-0008** is an EtherCAT coupler produced by Beckhoff within the EK EtherCAT Couplers series. It terminates a standard EtherCAT line and forwards fieldbus power and real-time data to a stack of I/O terminals, allowing controllers to add distributed sensors or actuators without extra wiring. By converting the physical layer of an upstream Ethernet cable into the internal terminal communication rail, the device forms the entry point for modular, DIN-rail-based automation islands.

The coupler snaps onto a **35 mm DIN rail**, so installation inside control cabinets follows common mounting conventions. Its enclosure is molded from **polycarbonate**, providing electrical insulation and low weight while withstanding typical panel temperatures. Its overall dimensions are **44 × 100 × 68 mm**, which leave clearance for side-by-side accessories. Communication with the preceding node operates at **100 Mbit/s**, and the copper link uses a shielded Category 5 Ethernet/EtherCAT cable. A shielded M8 screw interface provides a secure connection that resists vibration. An **IP20** rating limits use to protected indoor areas, and the body can be placed in any installation position without affecting performance.

I/O terminals clip to the coupler through a **double-slot-and-key connection**, allowing side-by-side mounting without tools and ensuring correct signal alignment on the backplane. The backplane also feeds the electronics, so no external supply is required; operating power is taken **from the E-bus**, simplifying wiring. Regardless of the attached modules, the unit relays frames using **any EtherCAT protocol**. It maintains deterministic timing across a segment length of up to **100 m** between stations when Category 5e shielding is maintained. The available distance

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and broad protocol support allow a single rail segment to connect sensors, drives, and safety devices under uniform cycle control.

Specifications

Bus Interface:	1 x M8, Shielded, Screw Type	**Dimensions (w X H X D):**	44 x 100 x 68 mm	**Housing Material:**	Polycarbonate
Installation Position:	Variable	**Max Station Distance:**	100 m	**Mounting:**	35 mm DIN Rail
Power Supply:	From E-bus	**Protection Rating:**	IP20	**Protocol:**	Any EtherCAT Protocol
Side-by-side Mounting:	Double Slot And Key Connection	**Transmission Medium:**	Ethernet/EtherCAT Cable (Cat.5 Min), Shielded	**Transmission Rate:**	100 Mbit/s
Last Verified:	11/22/2026 7:09 PM				

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