Beckhoff — EK EtherCAT Couplers

EK1122-0080



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The **EK1122-0080** is an EtherCAT coupler produced by Beckhoff within the EK EtherCAT Couplers series. The module functions as a passive branch element that mounts directly on a DIN rail next to compatible I/O terminals. It divides the fieldbus into two compact branches without requiring an active Ethernet switch, while preserving the timing of real-time EtherCAT telegrams. The coupler can create star networks or separate groups of motion axes, helping maintain deterministic communication between the controller and distributed I/O devices. Its compact terminal-style housing also allows the junction to be installed within an existing EtherCAT terminal station without occupying a separate mounting area.

Internally, the unit operates as a **two-port EtherCAT junction**. Telegrams arriving from the upstream bus travel through the two branches and return according to the frame sequence 1-2-E-Bus. A total of **2 ports** keeps the branch arrangement compact and provides a consistent propagation path for cycle-time calculations. The housing has an **IP20** rating, so the module should be installed in a control cabinet when protection from dust or liquids is necessary. The **Fast Hot Connect** function allows the EtherCAT master to recognize the coupler quickly after power-up or reconnection. This short recognition process reduces the delay before connected devices can resume communication following a planned interruption.

During a cold start, the device provides a group boot-up time of **less than 1 second**, supporting systems that must establish network communication promptly. It is intended for layouts using a **star topology**, allowing separate EtherCAT branches to originate from one terminal station. When a branch remains disconnected, the unit

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automatically **bridges ports 1 and 2** to preserve link continuity along the available communication path. The design **does not require EtherCAT distributed clocks**, making it suitable for applications that use cyclic data exchange without distributed clock synchronization. The **specially marked Fast Hot Connect sockets** make the applicable branch connections easy to identify during installation. Hot swapping is disabled during operation, so power must be removed before a connected cable is exchanged.

Specifications

Device Function:	2-Port EtherCAT Junction	**Distributed Clocks Required:**	No	**Fast Hot Connect:**	Yes
Fhc Port Marking:	Specially Marked	**Frame Forwarding Order:**	1 Then 2 Then E-Bus	**Group Boot-up (no Dc):**	<1 s
Hot Swap During Operation:	No	**Intended Topology:**	Star	**Port Count:**	2
Protection Class:	IP20	**Unused Port Behavior:**	Ports 1 And 2 Bridged	**Last Verified:**	11/22/2026 2:26 PM

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