Beckhoff — EK EtherCAT Couplers

EK1400



In-Stock, Ships 3-5 Days

- ☑ Get a Quote in 5 minutes
- ☑ Parts ship in as little as 24 hours
- ☑ Up to half the cost of the manufacturer

Secure Online Checkout

Free Ground Shipping

One Year Warranty

The **EK1400** is an EtherCAT coupler produced by Beckhoff for the EK EtherCAT Couplers series. It installs on a 35 mm DIN rail and links an EtherCAT trunk line to the manufacturer's slice-style I/O terminals, creating a scalable node for PLC-controlled machinery. A polycarbonate enclosure protects the internal circuitry and supports installation inside a control cabinet. Communication on the upstream side follows the EtherCAT protocol, allowing real-time data exchange among drives, sensors, and supervisory controllers without additional gateways.

Network access is provided through **two RJ45 sockets** that daisy-chain adjacent stations and support a line topology at a transmission rate of **1 Gbit/s**. Inside the device, an address space for up to **65,534 terminals** accommodates very large I/O expansions without requiring bus segmentation. The power backplane supplies field modules through contacts that can conduct up to **10 A**, while the electronics inside the coupler draw from a nominal supply of **24 V DC**. Separate power contacts use the same source, allowing actuators and sensors to receive power without additional supply wiring. An enclosure rating of **IP20** restricts the coupler to closed control panels that protect it from moisture and small airborne contaminants. The housing is 73 mm deep and 100 mm tall, so it can be mounted alongside breakers, relays, and other control equipment without requiring an unusually deep enclosure.

Copper segments between couplers may span up to **100 m**, giving panel builders flexibility when distributing control islands across a factory floor. The front housing measures **71 mm** wide, permitting dense row mounting while leaving room for field wiring and adjacent terminals. System configuration is carried out in Beckhoff's **TwinCAT** software, where the coupler appears as a bus head with automatically enumerated terminals. Guided air

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.

paths inside the panel dissipate heat generated during operation, allowing the device to function without auxiliary fans. The DIN rail attachment also keeps the coupler aligned with connected I/O terminals and provides straightforward access to its network and power connections.

Specifications

Bus Interface:	2 x RJ45	**Configuration Software:**	TwinCAT	**Depth:**	73 mm
Height:	100 mm	**Housing Material:**	Polycarbonate	**Maximum Power Contact Current:**	10 A
Maximum Power Contact Voltage:	24 V DC	**Maximum Station Distance:**	100 m	**Maximum Terminal Count:**	65,534
Mounting Rail Width:	35 mm	**Nominal Supply Voltage:**	24 V DC	**Protection Rating:**	IP20
Protocol:	EtherCAT	**Transmission Rate:**	1 Gbit/s	**Width:**	71 mm
Last Verified:	11/22/2026 4:54 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

Shipping Options

DHL, FedEx, UPS, Freight

Payment Methods

American Express, MasterCard, VISA, Wire Transfer

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.