Beckhoff — BK EtherCAT Bus Couplers

BK5110



In-Stock, Ships Today

- ☑ 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 **BK5110** is a fieldbus coupler produced by Beckhoff as part of the BK EtherCAT Bus Couplers series. It forms the gateway between an EtherCAT trunk line and the local terminal segment, transferring distributed process data to the controller in real time. By consolidating I/O connections in a compact rail-mounted device, the coupler simplifies wiring in industrial automation cells and provides deterministic network timing without separate repeater modules. This arrangement allows distributed sensors and actuators to communicate with the central controller through a single network connection.

The coupler can scan up to **256 digital I/O channels** over the K-bus. Its housing measures **50 × 100 × 68 mm**, allowing it to fit into space-constrained control cabinets. The supply section accepts a single **24 VDC feed**, which also supplies the power contacts used to energize subsequent terminals. Each power contact can carry up to **10 A**, supporting connected loads such as solenoid valves and relay coils. For cabinet installation, the housing clips onto a **35 mm DIN rail**, while a five-pole open-style connector provides the fieldbus connection. Internally, a 5 V supply rated at 500 mA powers the K-bus, and the input stage remains within its steady-state current limit during normal operation.

The enclosure has an **IP20 rating**, providing protection against accidental contact with the terminals when the coupler is installed in a suitable control cabinet. A starting inrush of 2.5 times the continuous current is permitted, after which current consumption stabilizes below the system-supply maximum of **200 mA**. Up to **64 Beckhoff Bus Terminals** can be connected to the coupler, allowing the local terminal segment to accommodate a range of digital

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.

devices. Process data are arranged into **5 receive and 5 transmit PDO slots**, keeping cyclic EtherCAT telegrams compact during controller communication. The head station has no built-in analog channels, so any required analog signal conditioning is handled by compatible terminals attached to the local bus segment.

Specifications

Analog Signals:	Not Equipped	**Belt Section:**	5V	**Bore Size:**	1-1/16 in
Bus Connection:	1 x open style connector, 5-pole	**Bushing Type:**	QD	**Digital Signals:**	256 inputs/outputs
Dimensions (w X H X D):	50 x 100 x 68 mm	**Finish:**	Painted	**Groove Width:**	0.625 in
K-bus Supply (5 V):	500 mA	**Material:**	Cast Iron	**Max Input Current:**	200 mA
Mounting Rail:	35 mm	**Number Of Bus Terminals:**	64	**Number Of Grooves:**	1
Outside Diameter:	6.75 in	**Pdos (rx/tx):**	5/5	**Pitch Diameter:**	6.1 in
Power Contact Load:	10 A	**Power Contact Voltage:**	24 VDC	**Power Supply:**	24 VDC
Protection Class:	IP20	**Starting Current:**	2.5 x continuous current	**Use With Bushing:**	SK
Weight:	7.9 lbs	**Width:**	1.06 in	**Last Verified:**	11/09/2026 11:27 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.