Beckhoff — BK EtherCAT Bus Couplers

# BK2000




**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 **BK2000** is a bus coupler manufactured by Beckhoff for the BK Bus Couplers series. It links a block of Beckhoff K-bus terminals to a higher-level automation network and translates terminal data into fieldbus frames. The device also supplies operating power to the attached I/O stations, supporting compact remote I/O installations that can be expanded as machine requirements change.

The coupler communicates over the **Lightbus** protocol at a data transfer rate of **2.5 Mbit/s**, providing the cyclic throughput used for communication with the controller. Its internal supply rail accepts **24 VDC** and energizes the coupler electronics and downstream terminals without an auxiliary supply. Up to **64 standard bus terminals** can be connected directly to the coupler. Capacity can be expanded to **255 channels** when a K-bus extension module is installed, allowing a single node to accommodate additional sensors, actuators, and special-function terminals. The fieldbus interface and K-bus operate independently, so fieldbus communication and terminal data exchange can be processed without interfering with each other. The enclosure is intended for installation in a control cabinet that provides suitable protection from water, debris, and unintended contact.

The coupler snaps onto a **35 mm rail compliant with EN 60715**, permitting straightforward installation and removal when panel layouts change. Its **variable installation position** allows the unit to be mounted horizontally or vertically without disrupting convection cooling. The housing has an **IP20** protection rating, shielding live parts from accidental finger contact while allowing air to circulate around the enclosure. Storage and transportation are permitted within a temperature range of **-25 °C to +85 °C**, allowing the device to remain in unconditioned storage

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.

areas when it is not operating. Adequate spacing around the housing helps preserve airflow and provides access to the terminals and network connections during installation.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Analog Peripheral Signals:** | 128 inputs and outputs | **Baud Rates:** | 2.5 MBaud | **Configuration Interface:** | Available for KS2000 |
| **Current Load Power Contact:** | 10 A | **Data Transfer Rate:** | 2.5 Mbit/s | **Digital Peripheral Signals:** | 256 inputs and outputs |
| **Fieldbus Type:** | Lightbus | **Foreign Object Protection:** | Less than 12 mm | **Input Current (maximum):** | 900 mA |
| **Input Current (typical):** | 105 mA | **Installation Position:** | Variable | **Max Bus Terminals:** | 64 |
| **Max With K-bus Extension:** | 255 | **Mounting Rail:** | 35 mm per EN 60715 | **Number Of Bus Terminals:** | 64 |
| **Operating Temperature:** | 0 degrees C to +55 degrees C | **Output Current (k-bus):** | 1.75 A max | **Peripheral Bytes:** | 512 input and 512 output bytes |
| **Protection Class:** | IP20 | **Storage Temperature:** | -25 °C to +85 °C | **Supply Isolation:** | 500 V (K-bus / supply voltage) |
| **Supply Voltage:** | 24 VDC | **Voltage Power Contact:** | 24 V DC / AC | **Voltage Supply:** | 24 V, +/- 10% |
| **Water Protection:** | No protection | **Weight:** | approx. 150 g | **Last Verified:** | 11/08/2026 9:44 PM |

## 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

### 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.