Beckhoff — BK EtherCAT Bus Couplers

BK3150-0900



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 **BK3150-0900** is a bus coupler produced by Beckhoff for distributed I/O systems. Acting as a field-level gateway, it links a group of Beckhoff I/O terminals to a PROFIBUS DP master so that analog and digital process variables can be exchanged with the controller in real time. Its modular terminal interface supports sensor acquisition, actuator control, and machine status reporting through a single network connection. The coupler mounts at the beginning of the terminal assembly and manages communication between the connected modules and the higher-level control system.

This unit handles **128 analog inputs and outputs** and an additional **256 digital inputs and outputs**, allowing mixed-signal stations to operate through one network node. The PROFIBUS interface supports transfer rates of up to **12 Mbaud**, helping maintain responsive data exchange when the network includes several high-density couplers. Control electronics operate from a **24 VDC supply**; startup current reaches 2.5 times the continuous demand, while normal operation draws up to 320 mA. A D-Sub 9-pin connector provides the PROFIBUS connection, and power contacts within the terminal assembly can carry field power to connected devices. Internal isolation barriers have a dielectric strength of 500 V, separating the communication circuits from the supply domain.

The compact housing provides **IP20 protection** when installed in a suitable control cabinet. The built-in terminal bus distributes data and power to as many as **64 standard terminals**, while an extension can increase the supported terminal count to 255. The cyclic PROFIBUS process image accommodates **128 bytes**, helping conserve controller memory in distributed automation systems. Connected terminals share a combined current limit of **10 A**

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.

through the spring-contact backplane. Housing dimensions of **44 × 100 × 68 mm** allow installation on a DIN rail without exceeding the depth of typical control enclosures. The terminal stack extends to the right of the coupler, allowing the station to be arranged according to the required combination of analog, digital, and specialty I/O modules.

Specifications

Analog Signals:	128 inputs/outputs	**Bus Connection:**	1 x D-Sub, 9-Pin	**Bus Interface:**	1 x D-sub 9-pin socket with shielding
Bus Terminal Capacity:	64	**Current Supply K-bus:**	1750 mA	**Data Transfer Medium:**	Shielded copper cable, 2 x 0.25 mm²
Data Transfer Rates:	Automatic detection up to 12 Mbaud	**Dielectric Strength:**	500 V	**Digital Signals:**	256 inputs/outputs
Dimensions (w X H X D):	44 x 100 x 68 mm	**Input Current:**	70 mA + (total K-bus current)/4, 500 mA max.	**Max Baud Rate:**	12 Mbaud
Max I/o Bytes:	128 bytes	**Max Input Current:**	320 mA	**Max Power Contact Load:**	10 A
Max Power Contact Voltage:	24 VDC	**Max Terminals With Extension:**	255	**Max. Number Of Bytes Fieldbus:**	128 byte input and 128 byte output
Number Of Bus Terminals:	64 (255 with K-bus extension)	**Operating Temperature:**	-25°C to +60°C	**Power Contacts:**	Max. 24 V DC/Max. 10 A
Power Supply:	24 V DC (-15%/+20%)	**Protection Class:**	IP20	**Protocol:**	PROFIBUS DP
Starting Current:	2.5 x continuous current	**Storage Temperature:**	-40°C to +85°C	**Supply Voltage:**	24 VDC
Vibration/shock Resistance:	Conforms to EN 60068-2-6/EN 60068-2-27	**Weight:**	Approx. 100 g	**Last Verified:**	11/09/2026 3:53 AM

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.

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

Payment Methods

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.