Beckhoff — BK EtherCAT Bus Couplers

BK3110



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The **BK3110** is a PROFIBUS bus coupler produced by Beckhoff within the BK PROFIBUS Bus Couplers series. Acting as the gateway between a PROFIBUS network and modular Beckhoff I/O terminals, the unit converts fieldbus frames into the internal K-bus format so connected terminals can share power and data on a single rail. This coupler is intended for distributed control architectures that require deterministic collection of digital and analog signals. Its compact housing allows the fieldbus interface and local I/O system to be installed together on a standard DIN rail.

On the field side, the coupler communicates at a maximum rate of **12 Mbaud** across an **RS-485** physical layer and uses a single 9-pin D-sub plug for network attachment. It can exchange up to **32 bytes** of process data per cycle, supporting as many as **256 inputs/outputs** across the attached terminals. A capacity of **64 terminal nodes** allows the channel count to be expanded without installing another coupler. The K-bus segment supplies **500 mA** to downstream electronics, while the head module draws no more than 200 mA from the control-voltage rail. These separate current values help determine the available power for the coupler and its connected terminal electronics.

The control section operates from a **24 VDC** supply and routes the same voltage to the power contacts, which can carry up to 10 A for connected loads. Beckhoff recommends a 10 A fuse, and the startup inrush can reach 2.5 times the continuous current. Dimensions of **50 x 100 x 68 mm** support installation in compact control cabinets with standard DIN-rail mounting. The enclosure meets the **IP20** protection class, providing protection against accidental finger contact but no protection against water ingress. Dielectric isolation of 500 V separates the logic circuit from the power contacts, helping prevent ground loops in machines that combine control and power circuits.

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Specifications

Analog Peripheral Signals:	Not Supported	**Baud Rate:**	12 Mbaud	**Baud Rate (automatic Detection):**	Up to max. 12 Mbaud
Bus Connection:	1 x D-sub plug, 9-pin	**Configuration Possibility:**	Via KS2000 configuration software or controller	**Dielectric Strength:**	500 V
Digital Peripheral Signals:	256 inputs/outputs	**Dimensions (w X H X D):**	50 x 100 x 68 mm	**Input Current:**	200 mA max.
K-bus Current:	500 mA	**Max Process Data:**	32 bytes	**Max. Number Of Bytes (inputs And Outputs):**	32 bytes
Number Of Bus Terminals:	64	**Permissible Ambient Temperature (operation):**	0°C to +55°C	**Permissible Ambient Temperature (storage):**	-25°C to +85°C
Physical Layer:	RS-485	**Power Contact Current:**	10 A max.	**Power Contact Voltage:**	24 VDC max.
Power Supply:	24 VDC	**Protection Class:**	IP20	**Recommended Fuse:**	10 A max.
Starting Current:	2.5 x continuous current	**Last Verified:**	11/08/2026 4:22 PM		

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