Beckhoff — BK EtherCAT Bus Couplers

BK3150-0018



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The **BK3150-0018** is a PROFIBUS-to-I/O bus coupler manufactured by Beckhoff within the BK PROFIBUS Bus Couplers series. It functions as the head station of a terminal strand, converting PROFIBUS process data into the internal terminal bus format so that distributed digital or analog modules can be added directly on the DIN rail. In machines and plant cells, this unit aggregates sensor and actuator signals at the field level while maintaining deterministic communication with the central controller.

A single field cable terminates at a **9-pin D-sub plug** on the front, and up to 64 terminals can be attached to the right side of the coupler. The module snaps onto a **35 mm** mounting rail, and its fieldbus interface uses the **RS-485** physical layer for communication. The housing measures **44 × 100 × 68 mm** and is molded from polycarbonate and PA 6.6, providing mechanical stability without adding excessive width inside the control cabinet. An enclosure rating of **IP20** limits installation to protected cabinets. The logic electronics operate from a 24 VDC supply. At startup, the unit draws 2.5 times its steady-state current before consumption settles at 320 mA. The same 24 VDC potential passes through the power contacts to supply the attached terminals while remaining within the contacts' voltage limit.

The internal circuitry withstands dielectric test voltages up to **500 V**, providing electrical isolation between the fieldbus and I/O sections. PROFIBUS telegrams pass through the device at a maximum transmission rate of **12 Mbaud**, supporting short cycle times even when the terminal strand is fully populated. The power contacts can conduct up to **10 A**, allowing higher-current loads to share the field supply without separate supply wiring. Process

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images as large as **128 bytes** are supported, enabling the simultaneous exchange of status, command, and diagnostic data for the attached terminals. The compact housing leaves room for adjacent control components while keeping the terminal connections accessible. Its modular arrangement also allows the I/O strand to combine digital and analog terminals according to the machine's signal requirements.

Specifications

Bus Connection:	9-pin D-sub plug	**Bus Interface:**	1 x D-sub 9-pin socket with shielding	**Bus Terminals:**	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	**Dimensions (w X H X D):**	44 x 100 x 68 mm	**Input Current:**	70 mA + (total K-bus current)/4, 500 mA max.
Material:	Polycarbonate, Polyamide (PA 6.6)	**Max Baud Rate:**	12 Mbaud	**Max Input Current:**	320 mA
Max Power Contact Load:	10 A	**Max Power Contact Voltage:**	24 VDC	**Max Process Bytes:**	128 bytes
Max. Number Of Bytes Fieldbus:	128 byte input and 128 byte output	**Mounting Rail:**	35 mm	**Number Of Bus Terminals:**	64 (255 with K-bus extension)
Operating Temperature:	-25...+60°C	**Physical Layer:**	RS-485	**Power Contacts:**	max. 24 V DC/max. 10 A
Power Supply:	24 V DC (-15%/+20%)	**Protection Class:**	IP20	**Starting Current:**	2.5 x continuous current
Storage Temperature:	-40...+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 7:53 AM		

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