



Cost-effective automation with new "Compact" Bus Coupler range

Fieldbus know-how packaged in compact form

→ With a new generation of Bus Couplers, Beckhoff expand their proven Bus Terminal system. The "Compact" Bus Coupler range was developed with cost optimization in mind, as well as a more compact enclosure.

The technical characteristics of the "Compact" BKxx50 coupler are comparable with those of the "Economy plus" BKxx20 Bus Coupler: up to 64 Bus Terminals are supported. With the terminal bus extension, up to 255 Bus Terminals can be connected. The new Bus Couplers support digital I/O Bus Terminals and all analog and special terminals.

However, the "Compact" couplers do not completely replace the "large" Bus Couplers. In contrast to the "Economy plus" Bus Couplers, the new, more compact enclosure does not have

a PE contact. If a PE connection is required, it can be realized via an additional bus function terminal – e.g. the KL9100.

The "Compact" Bus Couplers were developed for Profibus DP, CANopen and DeviceNet. They offer automatic baud rate detection and two decimal address selection switches. Depending on the bus system, a 9-pin D-Sub (Profibus BK3150, CANopen BK5151) or a 5-pin open style connector (CANopen BK5150, DeviceNet BK5250) is available for the fieldbus connection.

Overview and differences between the Beckhoff Bus Couplers

Properties	Standard BKxx00	Economy BKxx10	Economy plus BKxx20	Compact BKxx50	Low Cost LCxx00
Fieldbus connection	connector (fieldbus-dependent)	connector (fieldbus-dependent)	connector (fieldbus-dependent)	connector (fieldbus-dependent)	directly on spring-loaded terminals
K-Bus power supply	1750 mA	500 mA	1750 mA	1750 mA	500 mA
Supported Bus Terminals	all	only digital I/O (except KL1501, KL25x2)	all	all	only digital I/O (except KL1501, KL25x2)
Max. number of Bus Terminals	64	64	64 (255 via Terminal Bus extension)	64 (255 via Terminal Bus extension)	64
Electrical isolation	between fieldbus/power contacts/supply voltage	between fieldbus/power contacts/supply voltage	between fieldbus/power contacts/supply voltage	between fieldbus/power contacts/supply voltage	Profibus yes, CANopen and DeviceNet no

Product announcement

Product announcement: "Compact" Couplers for Profibus, BK3150 and CANopen, BK5150 and BK5151 are available. Market introduction of the DeviceNet Coupler (BK5250) is expected during the 2nd quarter of 2004.