

PROFIBUS BK3XX0

Product Data Sheet

BK3120

PROFIBUS Economy plus Bus Coupler

FIELD BUS PROTOCOL	DIRECT BUS TERMINAL CAPACITY	CAPACITY WITH K-BUS EXTENSION	PROCESS IMAGE
PROFIBUS DP / DP-V1	64	255	128 bytes input + 128 bytes output

Beckhoff BK3120 is an Economy plus PROFIBUS Bus Coupler for the BK3xx0 Bus Terminal system. It connects modular field I/O to a compatible PROFIBUS DP master in machine and process automation, supporting DP-V1 parameter access alongside cyclic I/O exchange.

01

VERIFIED TECHNICAL DATA

Fieldbus protocol	PROFIBUS DP / DP-V1
Direct Bus Terminal capacity	64
Capacity with K-bus extension	255
Process image	128 bytes input + 128 bytes output
Automatic baud detection	Up to 12 Mbaud
Bus connector	1 x shielded 9-pin D-sub socket
Coupler supply voltage	24 V DC (-15% / +20%)
Maximum input current	500 mA
K-bus supply current	1750 mA
Power contact rating	24 V DC maximum / 10 A maximum

ADDITIONAL PRODUCT DATA

Electrical isolation	500 V between power contacts, supply and fieldbus
Operating ambient temperature	-25 to +60 deg C
Storage temperature	-25 to +85 deg C
Relative humidity	95% maximum, non-condensing
Protection rating	IP20

DOCUMENTED USE SETTINGS

Food Processing and Beverage Manufacturing: Food Production and Processing.

Packaging Production and Container Manufacturing: Consumer Goods Packaging Production.

Pharmaceutical Manufacturing and Healthcare Production: Pharmaceutical Product Manufacturing.

SYSTEM COMPATIBILITY

BK3120 connects a PROFIBUS DP master to Beckhoff Bus Terminals through its K-bus. Select the GSD file and terminal configuration that match the installed coupler firmware and intended mapping mode.

PRODUCT EVIDENCE

Beckhoff BK3xx0 and LC3100, Version 4.5.0, 2 June 2022, pp. 8 to 10, 41 and 50 to 51