

# IBS IL 24 BK-E2000-PAC - Bus coupler



2897169

<https://www.phoenixcontact.com/us/products/2897169>

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Inline, Bus coupler, INTERBUS, E2000, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

The figure shows a version without connector

## Product description

The bus coupler connects an Inline station to the INTERBUS remote bus and provides the supply voltages for the connected analog modules.

## Your advantages

- Remote bus connections via E2000 connectors
- Use of PCF and/or glass fiber cable
- Optical path diagnostics
- Mode switch for adjusting interface properties

## Commercial data

Item number	2897169
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI111
GTIN	4046356165808
Weight per piece (including packing)	275.6 g
Weight per piece (excluding packing)	210 g
Country of origin	DE

## Technical data

### Dimensions

Width	90 mm
Height	119.8 mm
Depth	71.5 mm

### Interfaces

#### INTERBUS

No. of channels	2
Connection method	E2000

#### Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

### System properties

#### System limits

Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 63
Number of supported branch terminals with remote bus branch	0

#### Module

ID code (dec.)	02
ID code (hex)	02
Length code (hex)	01
Length code (dec)	01
Process data channel	16 bit
Input address area	2 Byte
Output address area	0 Byte
Register length	0 bit

### Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of supply	including Inline connector and labeling field

### Electrical properties

Maximum power dissipation for nominal condition	23 W
Protective circuit	Reverse polarity protection

Potentials: Bus coupler supply  $U_{BK}$ ; Communications power  $U_L$  (7.5 V) and the analog supply  $U_{ANA}$  (24 V) are generated from the bus coupler supply.

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Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 960 mA (with max. number of connected I/O terminal blocks)
	typ. 60 mA (without connected Inline I/O terminals)

## Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC $\pm$ 5 %
Power supply	max. 1 A DC

## Potentials: Supply of analog modules ( $U_{ANA}$ )

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 0.5 A DC

## Electrical isolation/isolation of the voltage ranges

Test voltage: 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional ground	1000 V DC, 1 min
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## Connection data

### Connection technology

Connection name	Inline connector
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### Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa
Air pressure (storage/transport)	70 kPa ... 106 kPa
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 95 %

## Mounting

Mounting type	DIN rail mounting
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## Classifications

### UNSPSC

UNSPSC 21.0	32151602
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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