

# IBS IL 24 BK-LK-2MBD-PAC - Bus coupler



2862068

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Inline, Bus coupler, INTERBUS, F-SMA connector, transmission speed in the local bus: 2 Mbps, degree of protection: IP20, including Inline connector and labeling field

## 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 using fiber optic technology
- Optical path diagnostics

## Commercial data

Item number	2862068
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI111
Catalog page	Page 246 (AX-2009)
GTIN	4017918974695
Weight per piece (including packing)	293.6 g
Weight per piece (excluding packing)	220 g
Customs tariff number	85389091
Country of origin	DE

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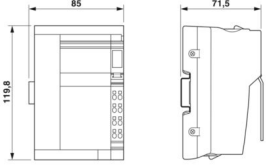


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## Technical data

### Dimensions

Dimensional drawing	
Width	85 mm
Height	119.8 mm
Depth	71.5 mm

### Interfaces

#### INTERBUS

Number of interfaces	2
Connection method	F-SMA connector
Transmission speed	2 Mbps
Transmission physics	FO

#### Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	2 Mbps

### System properties

#### System limits

Number of local bus devices that can be connected	63
Number of devices with parameter channel	62
Number of supported branch terminals with remote bus branch	max. 15

#### Module

ID code (dec.)	04
ID code (hex)	04
Length code (hex)	00
Length code (dec)	00
Process data channel	0 bit
Input address area	0 Byte
Output address area	0 Byte
Register length	0 bit

### Product properties

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

## Electrical properties

Maximum power dissipation for nominal condition	30 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.

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. 1.25 A (with max. number of connected I/O terminal blocks)

Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC $\pm 5\%$
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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)

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	500 V AC, 50 Hz, 1 min.
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## Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.09 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.09 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.09 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.09 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

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Air pressure (operation)	80 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 %
Permissible humidity (storage/transport)	75 % ... 85 %

## Mounting

Mounting type	DIN rail mounting
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## Classifications

### ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

### ETIM

ETIM 9.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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