

# IBS IL 24 BK-DSUB-2MBD - Bus coupler



2855949

<https://www.phoenixcontact.com/us/products/2855949>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



INTERBUS bus coupler, subminiature connection, transmission speed 2 Mbaud, 24 V DC, without accessories

The figure shows the version IBS IL 24 BK-DSUB

## Commercial data

Item number	2855949
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI111
GTIN	4017918904418
Weight per piece (including packing)	300.8 g
Weight per piece (excluding packing)	256.23 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Product properties

Type	modular
------	---------

### System properties

#### INTERBUS-Master

Number of devices with parameter channel	63
Number of supported branch terminals with remote bus branch	max. 15

#### Programming data

Length code (hex)	00
ID code (dec.)	04
Length code (dec)	00
Process data channel	0 bit
Input address area	0 Byte
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	0 bit
Register length (master)	8192 bit

### Electrical properties

Maximum power dissipation for nominal condition	30 W
---	------

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) typ. 100 mA (without connected Inline I/O terminals)

#### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC $\pm 5\%$
Power supply	max. 2 A DC (observe derating)

#### 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 (observe derating)

### Connection data

#### 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>

# IBS IL 24 BK-DSUB-2MBD - Bus coupler



2855949

<https://www.phoenixcontact.com/us/products/2855949>

Conductor cross-section AWG	28 ... 16
-----------------------------	-----------

## Interfaces

### INTERBUS

Connection method	D-SUB-9 female/D-SUB-9 male
Transmission speed	2 Mbps
Transmission physics	Copper

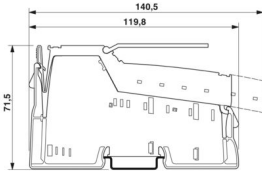
### Inline local bus

Connection method	Inline data jumper
-------------------	--------------------

### Supply

Connection method	8-pos. Inline connector
-------------------	-------------------------

## Dimensions

Dimensional drawing	
Width	85 mm
Height	119.8 mm
Depth	71.5 mm

## Material specifications

Color	green
-------	-------

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
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 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.)
Permissible humidity (storage/transport)	75 % ... 85 % (Slight temporary condensation may sometimes appear on the housing, e.g. when the terminal block is brought out of a vehicle into an enclosed room.)

## Mounting

Mounting type	DIN rail mounting
---------------	-------------------

# IBS IL 24 BK-DSUB-2MBD - Bus coupler

2855949

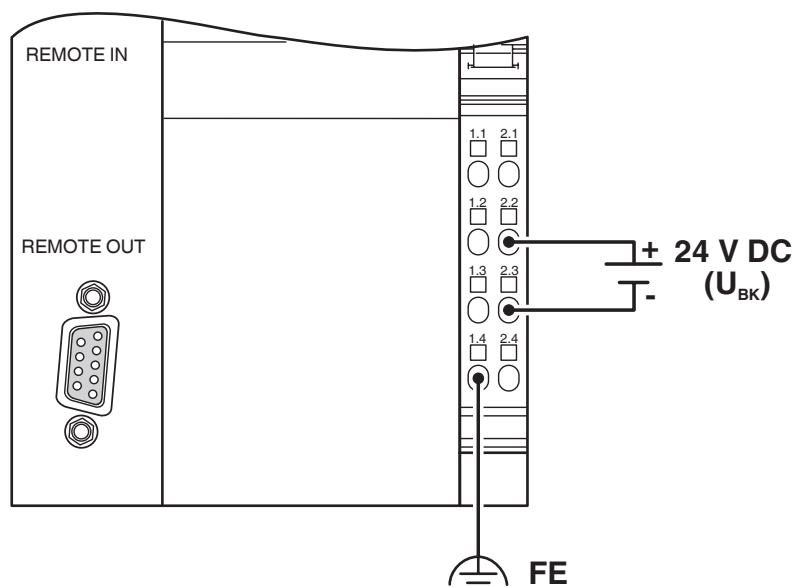
<https://www.phoenixcontact.com/us/products/2855949>

## Drawings

Dimensional drawing



Connection diagram



# IBS IL 24 BK-DSUB-2MBD - Bus coupler



2855949

<https://www.phoenixcontact.com/us/products/2855949>

## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)