

IBS IL 24 BK-DSUB - Bus coupler



2742104

<https://www.phoenixcontact.com/us/products/2742104>

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INTERBUS bus coupler, subminiature connection, 24 V DC, without accessories

Product description

The bus terminal module couples the Inline station to the INTERBUS remote bus. It provides the supply voltages U L and U ANA for the connected devices.

Features

- Remote bus connections in copper via D-SUB connectors
- Electrical isolation of the remote bus segments
- Automatic configuration of the outgoing interface as remote bus or local bus interface
- Supports up to 15 connected terminals with remote bus branch

Commercial data

Item number	2742104
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI111
GTIN	4017918876777
Weight per piece (including packing)	311.1 g
Weight per piece (excluding packing)	311.1 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

Type	modular
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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 (master)	8192 bit

Electrical properties

Protective circuit	Reverse polarity protection
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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	0.09 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.09 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

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Interfaces

INTERBUS

Connection method	D-SUB-9 female/D-SUB-9 male
Transmission speed	500 kbps
Transmission physics	Copper

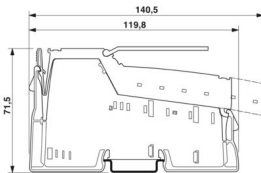
Inline local bus

Connection method	Inline data jumper
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Supply

Connection method	8-pos. Inline connector
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Dimensions

Dimensional drawing	
Width	85 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
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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
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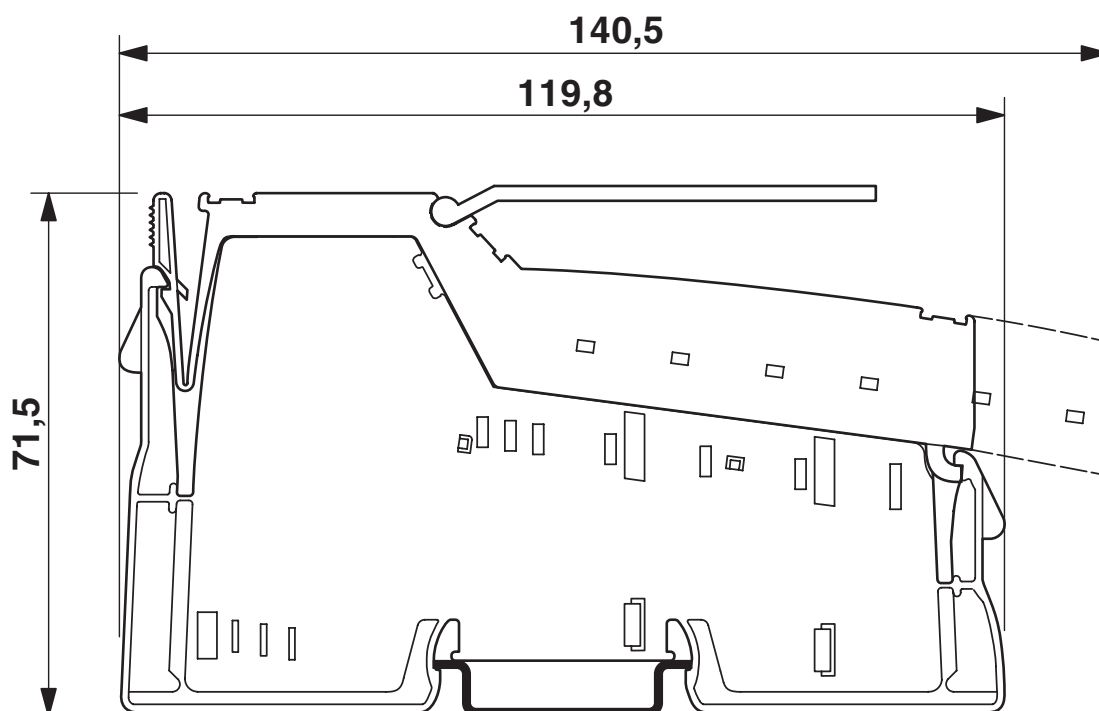
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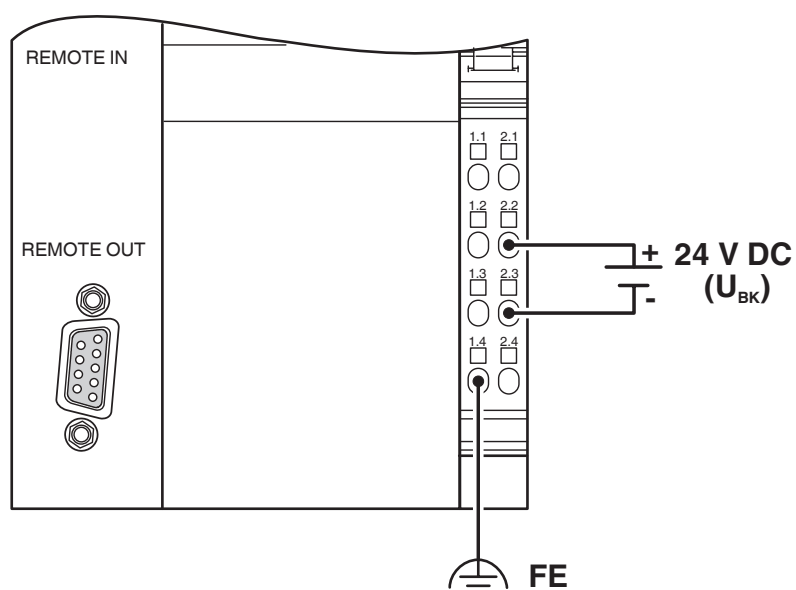


Drawings

Dimensional drawing



Connection diagram



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Environmental product compliance

EU REACH SVHC

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