

IBS IL 24 BK-T - Bus coupler

2726188

<https://www.phoenixcontact.com/us/products/2726188>

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.



Inline, Bus coupler, INTERBUS, Inline shield connector, transmission speed in the local bus: 500 kbps

Product description

Inline bus terminals connect the terminals of an Inline station to the INTERBUS network.

A copper conductor is used for connecting to the INTERBUS remote bus. The remote bus cable is connected to the bus terminal block via an INLINE shielded plug.

The bus terminal performs the following functions within an Inline station:

- Updates the INTERBUS remote bus signals
- Disconnects the outgoing remote bus or the connected I/O modules via software commands
- Supplies the connected I/O modules using an integrated power supply unit
- Connects to the functional ground by snapping onto the DIN rail.

The Inline terminals can be marked using hinged marking fields. The fields have insert cards that can be marked individually according to the application. In addition, the ZBFM-6... zack marker strip can be used to mark the terminal points.

Note the following during configuration:

The total logic current of all the terminals connected to an Inline bus terminal must not exceed the permissible total current of 2 A. Depending on the station configuration, the number of terminals that can be connected may be less than 63.

Commercial data

Item number	2726188
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI111
GTIN	4017918157135
Weight per piece (including packing)	194.7 g
Weight per piece (excluding packing)	194.7 g
Customs tariff number	85389091
Country of origin	DE

IBS IL 24 BK-T - Bus coupler

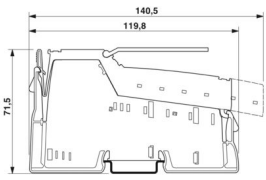
2726188

<https://www.phoenixcontact.com/us/products/2726188>



Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

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

Interfaces

INTERBUS

No. of channels	2 (Connected to functional ground with a capacitor)
Connection method	Inline shield connector
Transmission speed	500 kbps
Transmission physics	Copper

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

Supply

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

System properties

System limits

Number of local bus devices that can be connected	max. 63 (without additional power terminal block, observe allowable total current consumption)
Number of devices with parameter channel	63

Programming data

Register length (master)	8192 bit
--------------------------	----------

Product properties

Product type	I/O component
Product family	Inline
Type	modular

Electrical properties

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. 2 A (with max. number of connected I/O terminal blocks) typ. 90 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)

Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A (sum of $U_M + U_S$)

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A DC (sum of $U_M + U_S$)

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus / 5 V supply outgoing remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming remote bus / 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, incoming remote bus / 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming remote bus / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / I/O (U_M, U_S)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / communications power (U_{BK}, U_L, U_{ANA})	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / functional ground	500 V AC, 50 Hz, 1 min
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
Test voltage: Communications power (U_{BK}, U_L, U_{ANA}) / I/O (U_M, U_S)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V main supply, 24 V segment supply/functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection method	Inline connector
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
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-T - Bus coupler

2726188

<https://www.phoenixcontact.com/us/products/2726188>

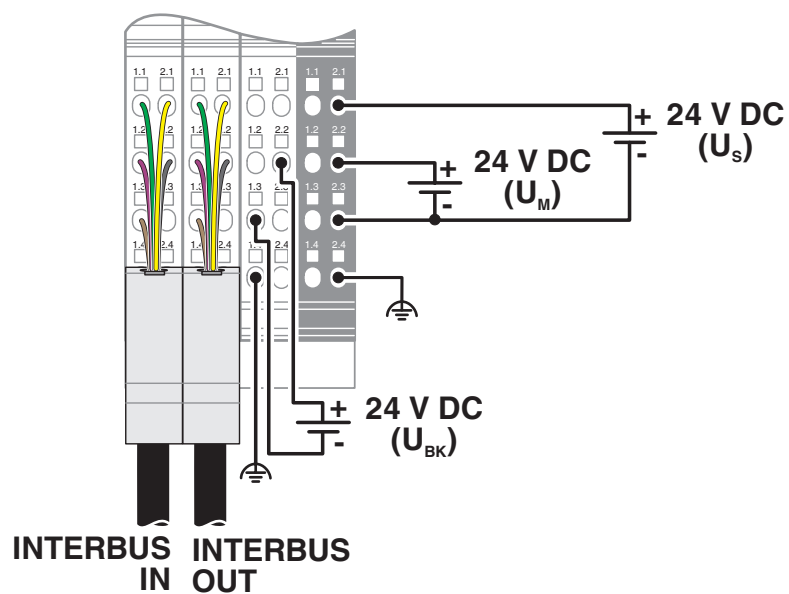


Drawings

Dimensional drawing



Connection diagram



Block diagram



IBS IL 24 BK-T - Bus coupler

2726188

<https://www.phoenixcontact.com/us/products/2726188>



Environmental product compliance

China RoHS

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

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