

## Bus coupler - IBS IL 24 BK-DSUB-PAC - 2861593

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Inline, Bus coupler, INTERBUS remote bus, D-SUB-9 female/D-SUB-9 male, Transmission speed in the local bus 500 kBit/s, Degree of protection IP20, including Inline connector and labeling field

### Product Features

- Remote bus connections using copper technology
- Electrical isolation



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	322.5 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

#### Dimensions

Width	85 mm
Height	119.8 mm
Depth	71.5 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
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.)

# Bus coupler - IBS IL 24 BK-DSUB-PAC - 2861593

## Technical data

### Ambient conditions

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.)
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)
Degree of protection	IP20

### General

Mounting type	DIN rail
Net weight	210 g

### Interfaces

Fieldbus system	INTERBUS
Designation	INTERBUS
Connection method	D-SUB-9 female/D-SUB-9 male
Transmission speed	500 kBit/s
Transmission physics	Copper
Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s

### System limits of the bus coupler

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

### Power supply for module electronics

Connection method	Inline connector
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	max. 1.25 A (with max. number of connected I/O terminal blocks)

### Inline potentials

Communications power $U_L$	7.5 V DC $\pm 5\%$
Power supply at $U_L$	max. 2 A DC (observe derating)
Main circuit supply $U_M$	24 V DC -15 % / +20 % (acc. to EN 61131-2)
Power supply at $U_M$	max. 8 A DC (Sum of $U_M + U_S$ )
Segment circuit supply $U_S$	24 V DC -15 % / +20 % (acc. to EN 61131-2)
Power supply at $U_S$	max. 8 A DC (Sum of $U_M + U_S$ )

## Bus coupler - IBS IL 24 BK-DSUB-PAC - 2861593

### Technical data

#### Inline potentials

I/O supply voltage $U_{ANA}$	24 V DC -15 % / +20 %
Power supply at $U_{ANA}$	max. 0.5 A DC (observe derating)

#### Standards and Regulations

Connection in acc. with standard	CUL
----------------------------------	-----

### Classifications

#### eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608

#### ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604

#### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

### Approvals

#### Approvals

---

#### Approvals

UL Recognized / cUL Recognized / LR / BV / ABS / BSH / BSH / EAC / cULus Recognized

---

# Bus coupler - IBS IL 24 BK-DSUB-PAC - 2861593

## Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

---

Approvals submitted

---

### Approval details

UL Recognized 

cUL Recognized 

LR


BV

ABS

BSH

BSH

EAC

cULus Recognized 

## Accessories

Accessories

End block

## Bus coupler - IBS IL 24 BK-DSUB-PAC - 2861593

### Accessories

End clamp - E/UK - 1201442



End clamp, Width: 9.5 mm, Height: 35.3 mm, Length: 50.5 mm, Color: gray

---

### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



---

### Plug

Inline connector - IB IL SCN-8-CP - 2727608



Inline connector, colored

---

### Terminal marking

Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

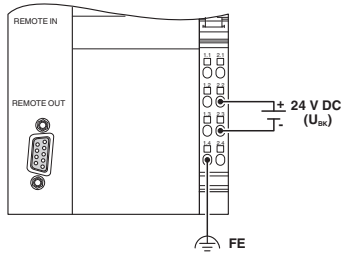


---

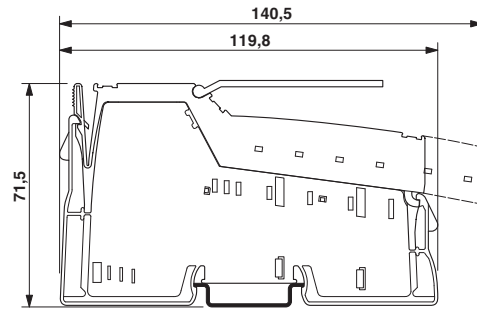
### Drawings

## Bus coupler - IBS IL 24 BK-DSUB-PAC - 2861593

Connection diagram



Dimensional drawing



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[2861593](#)