

## Bus coupler - FL IL 24 BK-PN-PAC - 2878816

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PROFINET bus coupler for Inline, 24 V DC, complete with accessories (plug and labeling field)

### Your advantages

- Up to 61 terminals (16 PCP devices) can be connected
- 85 mm design width
- 2-part 7-segment display for diagnostics
- Automatic speed detection of the system bus



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	348.900 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
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#### Dimensions

Width	85 mm
Height	119.8 mm
Depth	71.5 mm

#### Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

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### Technical data

#### Ambient conditions

Permissible humidity (operation)	75 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	75 % ... 95 % (non-condensing)
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

#### Interfaces

Designation	PROFINET
No. of channels	1
Connection method	RJ45 socket
Note on the connection method	Autonegotiation
Transmission speed	100 Mbps
Transmission physics	Copper
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (automatic detection, no combined system)

#### Digital inputs

Connection technology	2, 3-wire
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#### 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 ripple)
Ripple	Permissible ripple 3.6 V <sub>pp</sub> within the permissible voltage range
Current consumption	max. 1.5 A
	typ. 92 mA (without connected Inline I/O terminals)

#### General

Mounting type	DIN rail
Color	green
Net weight	322.52 g
Status and diagnostic indicators	Two-digit, seven-segment display and LEDs: U <sub>L</sub> (communications power), U <sub>M</sub> (main circuit voltage), U <sub>S</sub> (segment power), SF (group error), BF (bus error) COL (collision), XMT (transmit), RCV (receive), LNK (link)

#### Inline potentials

Designation	Bus coupler supply U <sub>BC</sub> ; Communications power U <sub>L</sub> (7.5 V) and the analog supply U <sub>ANA</sub> (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)

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### Technical data

#### Inline potentials

Current consumption	typ. 92 mA (without connected Inline I/O terminals)
	max. 1.5 A (with max. number of connected I/O terminal blocks)
Designation	Communications power ( $U_L$ )
Supply voltage	7.5 V DC $\pm 5\%$
Power supply unit	max. 2 A DC (observe derating)
Supply voltage	24 V DC -15 % / +20 %
Power supply unit	max. 0.5 A DC (observe derating)
Designation	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 unit	max. 8 A DC (sum of $U_M + U_S$ )
Designation	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 unit	max. 8 A DC (sum of $U_M + U_S$ )

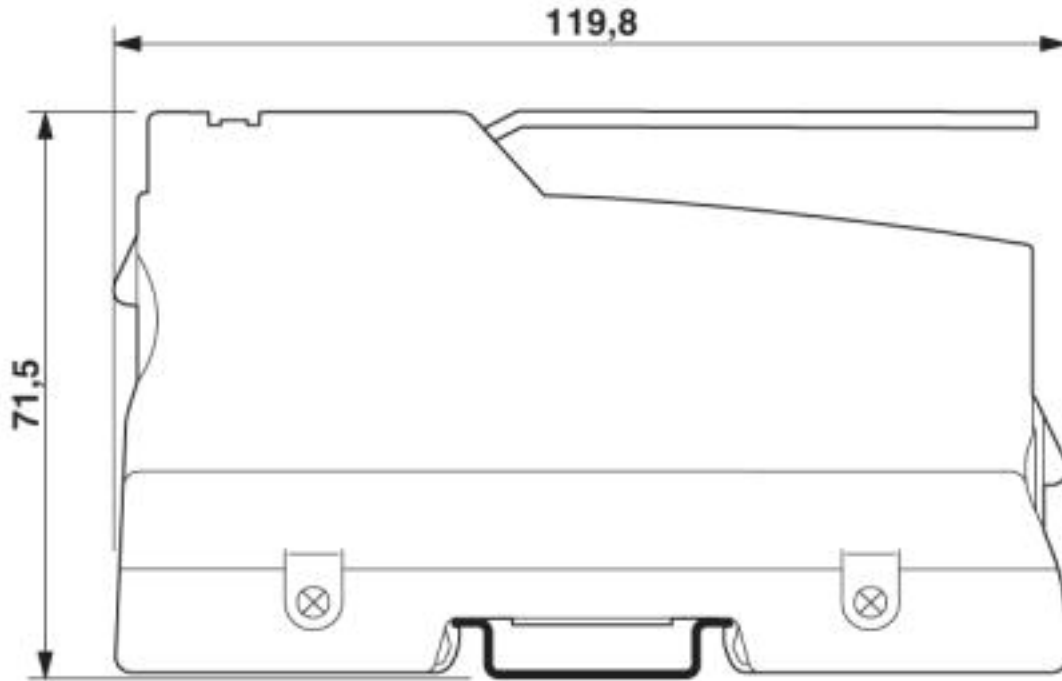
#### Standards and Regulations

Connection in acc. with standard	CUL
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### Drawings

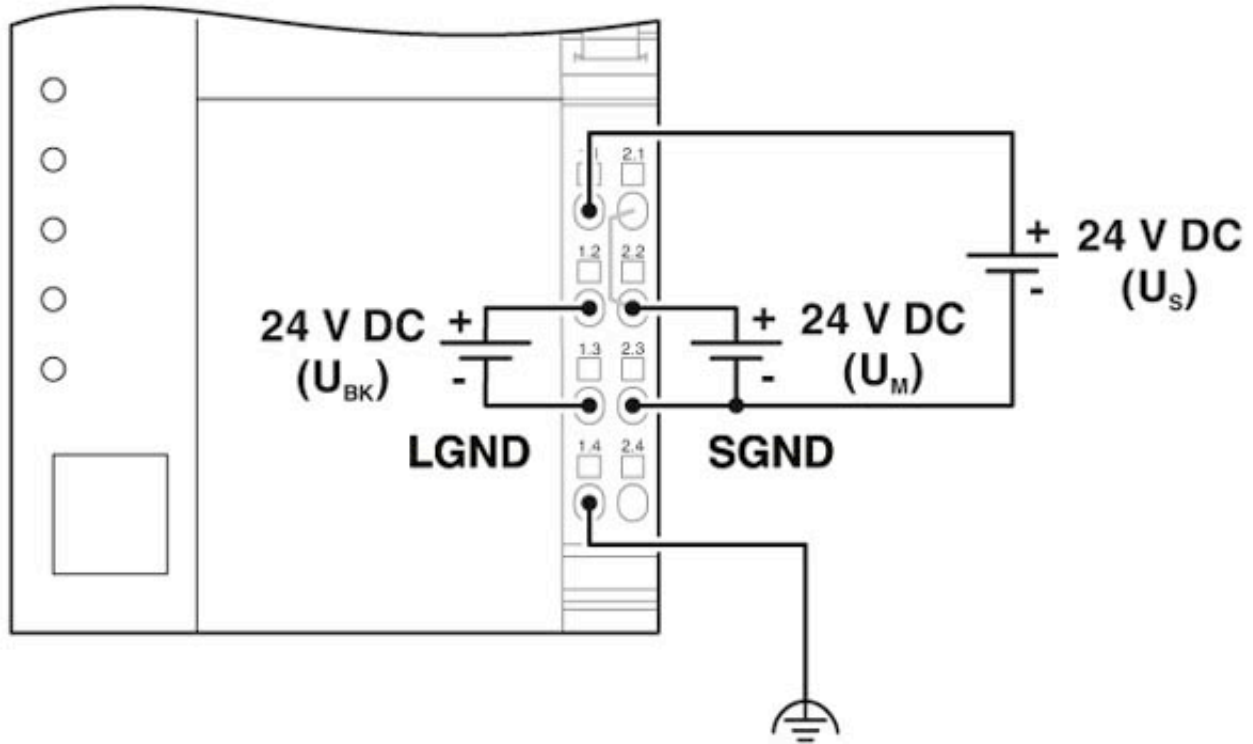
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Dimensional drawing



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Connection diagram



### 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
eCl@ss 9.0	27242608

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### Classifications

#### 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

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