

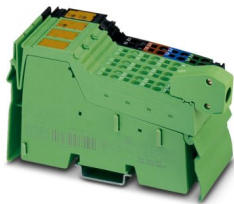
# IB IL 24 LSKIP-PAC - Communication module



2897457

<https://www.phoenixcontact.com/us/products/2897457>

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Inline, Coupler terminal, for extending the Inline local bus, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connectors and marking fields

## Product description

The terminal is designed for use within an Inline station. Using this terminal in connection with the IB IL 24 FLM-PAC terminal, you can extend an Inline station over two or more rows. To do so, install the IB IL 24 FLM-PAC terminal in an Inline station at the end of the row and the Inline coupler terminal at the beginning of the next row. This connection is a restricted-length local bus extension. Apply the supply voltages to the terminal again. To do this, apply a 24 V DC voltage ( $U_{24V}$ ) to the terminal. The communications power ( $U_L$ ) and the supply voltage for the analog terminals ( $U_{ANA}$ ) are generated internally from this voltage. In addition, you can apply the 24 V DC main voltage ( $U_M$ ) and the 24 V DC segment voltage ( $U_S$ ) to the terminal.

## Your advantages

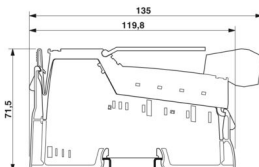
- Supply of all 24 V voltages required for the low-level signal of an Inline station
- Data transmission between terminals IB IL 24 FLM-PAC and IB IL 24 LSKIP-PAC via the RS-422 protocol

## Commercial data

Item number	2897457
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI152
GTIN	4046356165419
Weight per piece (including packing)	250.9 g
Weight per piece (excluding packing)	207 g
Customs tariff number	85389099
Country of origin	DE

## Technical data

### Dimensions

Dimensional drawing	
Width	48.8 mm
Height	135 mm
Depth	71.5 mm

### Notes

#### Note on application

Note on application	Only for industrial use
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### Interfaces

#### Inline local bus

Number of interfaces	1 (incoming local bus)
Connection method	Inline shield connector
Note on the connection method	Standard INTERBUS cable
Transmission speed	500 kbps / 2 Mbps (Can be used in Inline stations with these transmission speeds)
Transmission physics	Copper

#### Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps

### 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

#### Module

ID code (hex)	none
Input address area	0 Byte
Output address area	0 Byte
Register length	0 bit
Required parameter data	0 Byte

Required configuration data	0 Byte
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## Product properties

Product type	I/O component
Product family	Inline
Type	modular
Installation location	Control cabinet
Scope of supply	including Inline connectors and marking fields
Special properties	for extending the Inline local bus

## Electrical properties

Maximum power dissipation for nominal condition	1.45 W
Protective circuit	<p>Surge protection (segment supply, main supply, 24 V supply); Input protective diodes (can be destroyed by permanent overload)Pulse loads up to 1500 W are short circuited by the input protective diode.</p> <p>Protection against polarity reversal (segment supply/main supply); Parallel diodes for protection against polarity reversal; in the event of an error the high current flowing through the diodes causes the fuse connected upstream to blow.</p> <p>Polarity reversal (24 V supply); Serial diode in the lead path of the power supply unit; in the event of an error only a low current flows. In the event of an error, no fuse trips within the external power supply unit.</p> <p>Short-circuit protection of the communications power; electronic</p> <p>Short-circuit protection of the analog supply; electronic</p>

### Potentials: 24 V supply ( $U_{24V}$ ) for generating $U_L$ and $U_{ANA}$

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	<p>max. 1.25 A (at nominal voltage; consisting of: 0.75 A DC for the communications power and 0.5 A DC for the analog voltage supply)</p> <p>min. 60 mA (without connected Inline I/O terminals)</p>

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

Supply voltage	7.5 V DC
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### Potentials: Supply of analog modules ( $U_{ANA}$ )

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

### Potentials: Main circuit supply ( $U_M$ )

Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

### Potentials: Segment circuit supply ( $U_S$ )

Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

## Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply incoming local bus / 7.5 V communications power, 24 V analog power supply, 24 V power supply for generating voltages $U_L$ and $U_{ANA}$	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming local bus / 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V communications power, 24 V analog power supply, 24 V power supply for generating voltages $U_L$ and $U_{ANA}$ / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V communications power, 24 V analog power supply, 24 V power supply for generating voltages $U_L$ and $U_{ANA}$ / 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 24 V main supply, 24 V segment supply, 24 V power supply for generating voltages $U_L$ and $U_{ANA}$ / functional ground	500 V AC, 50 Hz, 1 min

## Connection data

### Connection technology

Connection name	Inline connector
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### Conductor connection

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>
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

### 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>
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	70 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)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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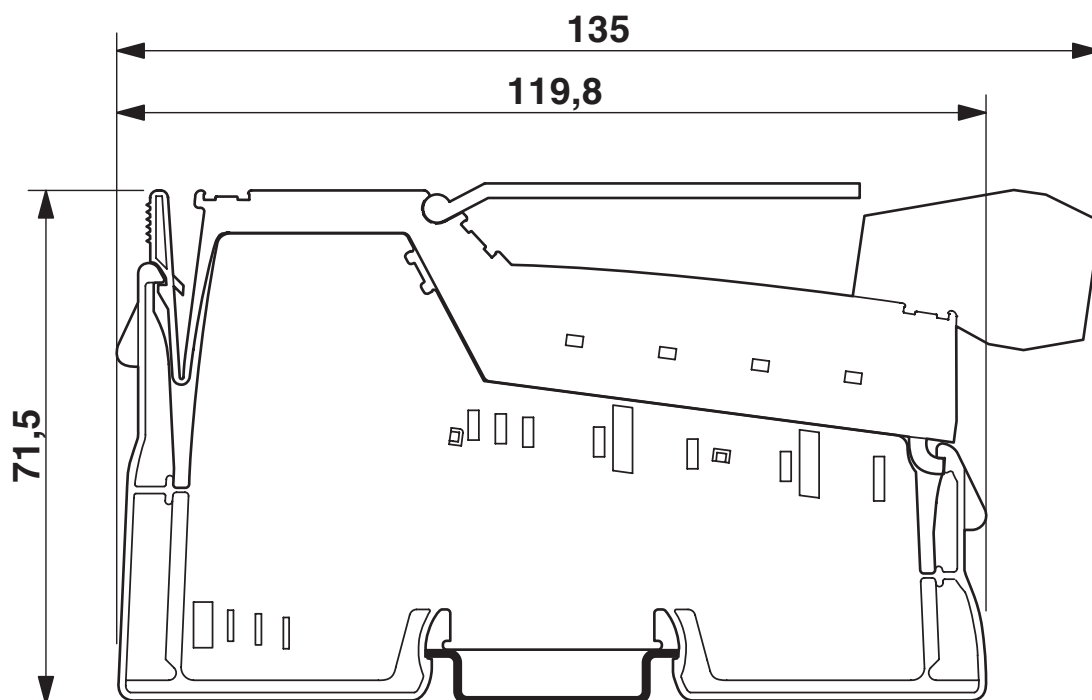
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## Mounting

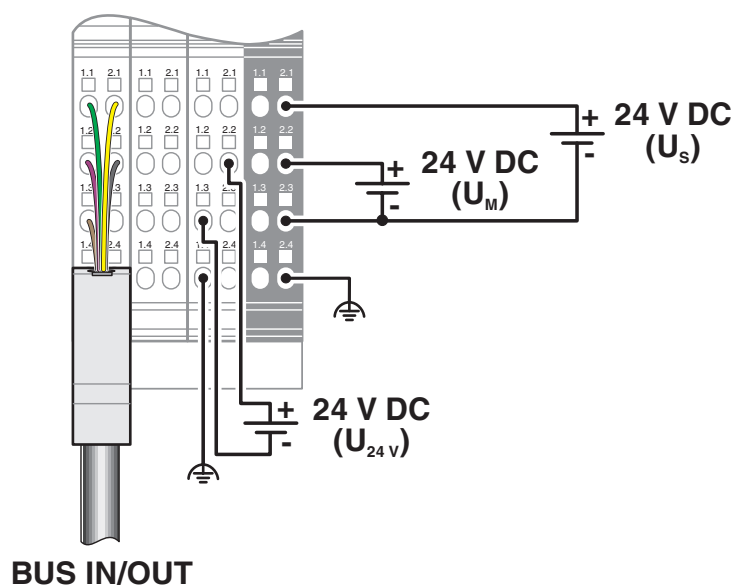
Mounting type	DIN rail mounting
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## Drawings

Dimensional drawing



Connection diagram



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## Approvals

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**cULus Listed**

Approval ID: E140324

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## Classifications

### ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

### ETIM

ETIM 9.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

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

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	6f1187e2-8722-4a79-992d-bdded791abcd

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