

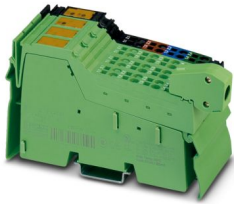
IB IL 24 LSKIP-PAC - Communication module



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

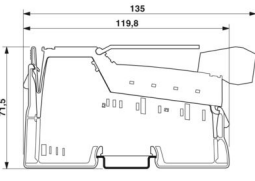
- Supply of all 24 V voltages required for the low-level signal of an Inline station
- Data transmission between terminals IB IL 24 FLM-PAC and IB IL 24 LSKIP-PAC via the RS-422 protocol

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 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 |
|---------------------|-------------------------|

Material specifications

| | |
|-----------------|------------------|
| Color (Housing) | green (RAL 6021) |
|-----------------|------------------|

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 |

Programming data (LocalbusSlave)

| | |
|---------------------|--------|
| Input address area | 0 Byte |
| Output address area | 0 Byte |

| | |
|-----------------------------------|--------|
| Parameter channel (PCP) | 0 Byte |
| Register length (bus) | 0 bit |
| Fieldbus data telegram (PROFIBUS) | |
| Required parameter data | 0 Byte |
| Required configuration data | 0 Byte |

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 |

Insulation characteristics

| | |
|----------------------|------------------------------|
| Overvoltage category | II (IEC 60664-1, EN 60664-1) |
| Pollution degree | 2 (IEC 60664-1, EN 60664-1) |

Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 1.45 W |
| Protective circuit | 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. |
| | 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. |
| | 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. |
| | Short-circuit protection of the communications power; electronic |
| | Short-circuit protection of the analog supply; electronic |

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 | 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) |
| | min. 60 mA (without connected Inline I/O terminals) |

Potentials: Communications power (U_L)

| | |
|----------------|--------------------------------|
| Supply voltage | 7.5 V DC |
| Power supply | max. 2 A DC (observe derating) |

Potentials: Supply of analog modules (U_{ANA})

| | |
|----------------|------------------------------|
| Supply voltage | 24 V DC (via voltage jumper) |
|----------------|------------------------------|

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

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) |
| 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 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 |
|-----------------|------------------|

Inline connector

| | |
|-----------------------------------|--|
| Connection method | Spring-cage connection |
| 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 |
| 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) |

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| | |
|--|--------------------------------|
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
|--|--------------------------------|

Mechanical test

| | |
|--|-----|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 5g |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 25g |

Standards and regulations

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

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

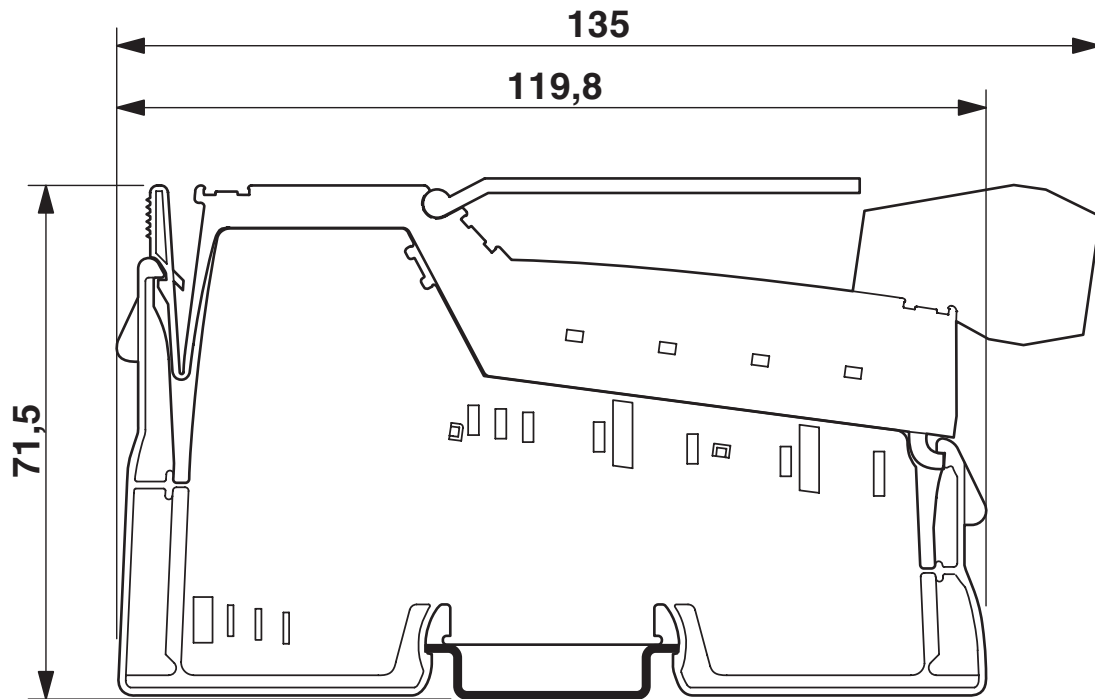
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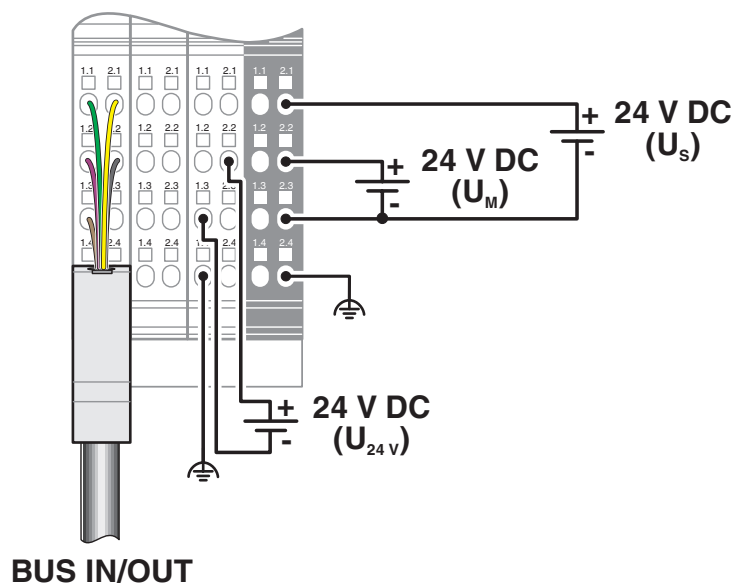
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Drawings

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 10.0 | EC001604 |
|-----------|----------|

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 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 5.456 kg CO2e |
|---------|---------------|

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