IB IL 24 LSKIP-PAC - Communication module

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

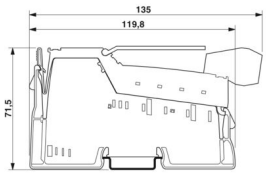
Commercial data

Item number	2897457
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI
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

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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

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

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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

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

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)

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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

Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section flexible	0.08 mm² ... 1.5 mm²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
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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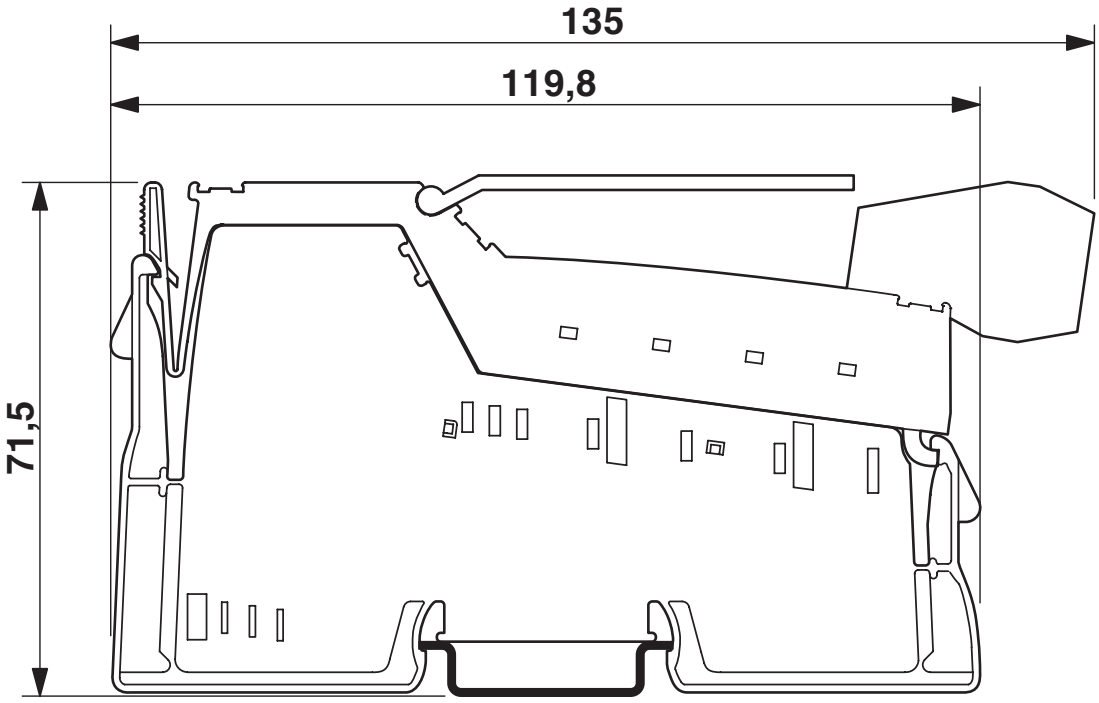
Mounting

Mounting type	DIN rail mounting

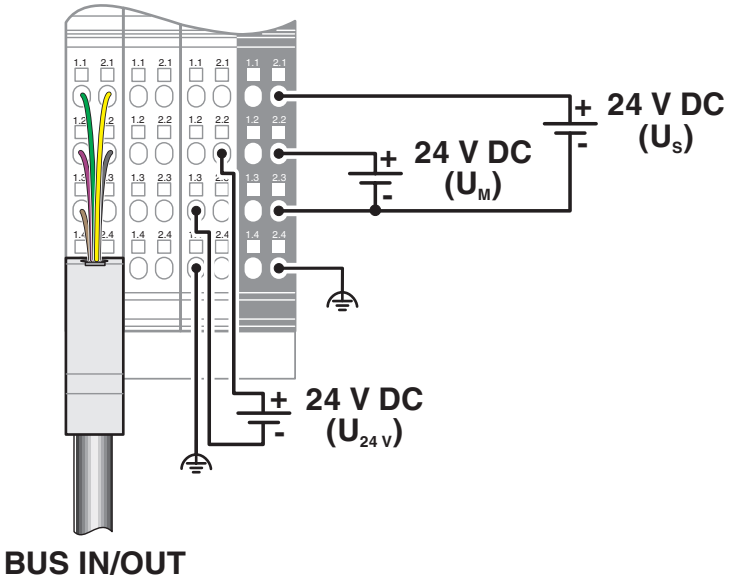
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Drawings

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

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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PHOENIX CONTACT Middle East FZ LLC
1201N-1206N, Dubai Science Park Towers – North
P.O. Box 345002, Dubai, United Arab Emirates
(+971) 4 437-0324
info-me@phoenixcontact.com

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