

Inline function terminal - IB IL 24 LSKIP-PAC - 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

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356165419
Weight per Piece (excluding packing)	241.200 g
Custom tariff number	85389099
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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Inline function terminal - IB IL 24 LSKIP-PAC - 2897457

Technical data

Dimensions

Width	48.8 mm
Height	135 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)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
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)
Degree of protection	IP20

Interfaces

Designation	Inline local bus
No. of channels	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
Designation	Inline local bus
No. of channels	1
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps

Inline potentials

Designation	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 consumption	min. 60 mA (without connected Inline I/O terminals)
	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)
Designation	Communications power (U_L)
Supply voltage	7.5 V DC (via voltage jumper)
Power supply unit	max. 2 A DC (observe derating)
Designation	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)

Inline function terminal - IB IL 24 LSKIP-PAC - 2897457

Technical data

Inline potentials

Power supply unit	max. 0.5 A DC (observe derating)
Designation	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 unit	max. 8 A DC (sum of $U_M + U_S$)
Designation	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 unit	max. 8 A DC (sum of $U_M + U_S$)

General

Mounting type	DIN rail
Color	green
Net weight	207 g
Note on weight specifications	with connectors

Electrical isolation

Test section	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.
	5 V supply incoming local bus / 24 V main supply, 24 V segment supply 500 V AC 50 Hz 1 min.
	5 V supply incoming local bus / functional ground
	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.
	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.
	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.

Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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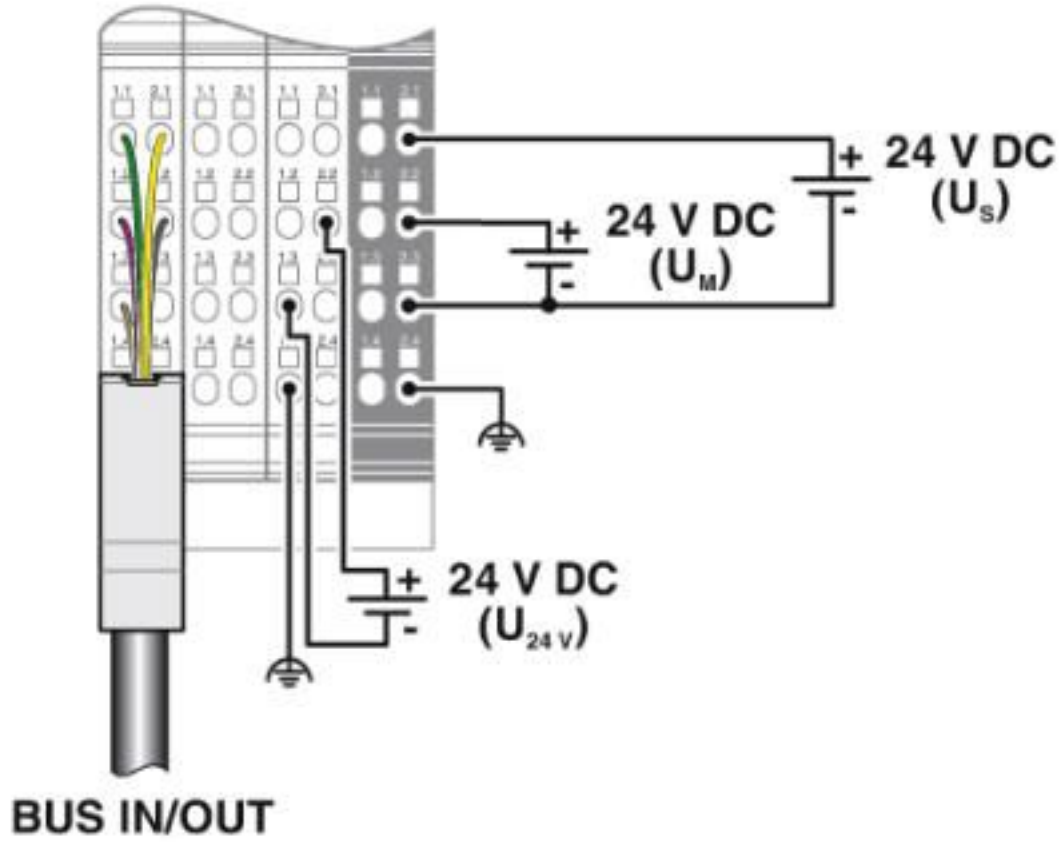
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

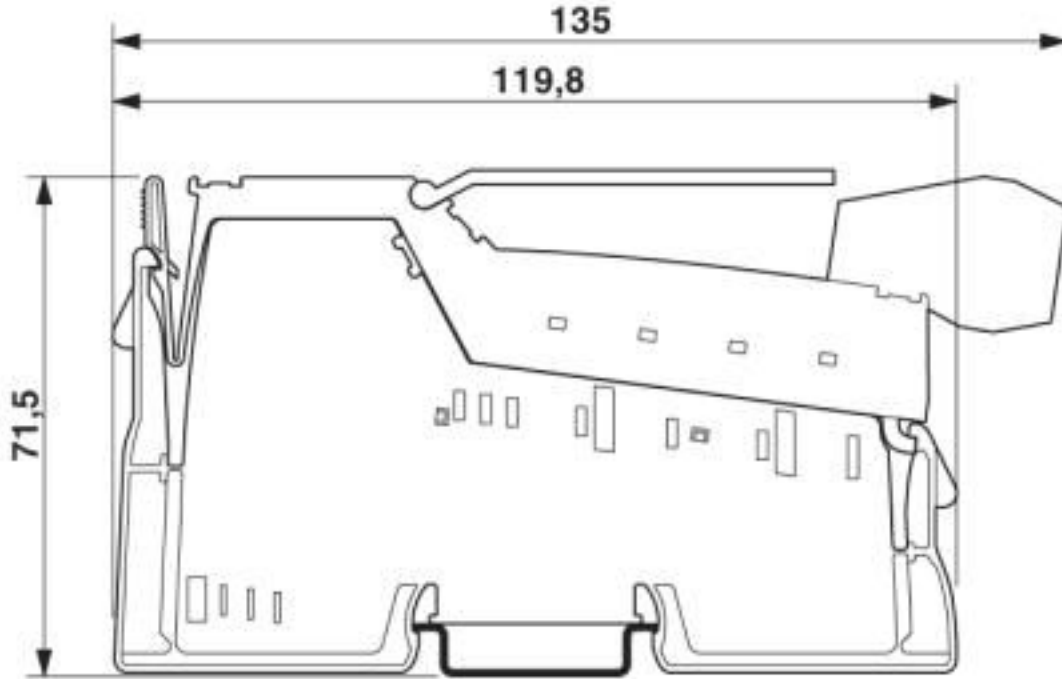
Inline function terminal - IB IL 24 LSKIP-PAC - 2897457

Connection diagram



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Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 4.0	27250200
eCl@ss 4.1	27250200
eCl@ss 5.0	27250200
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

Inline function terminal - IB IL 24 LSKIP-PAC - 2897457

Classifications

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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EAC		EAC-Zulassung
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cULus Listed	
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Accessories

Accessories

Connector set

Connector set - IB IL BK-PLSET/CP - 2860374



Connector set for Inline bus coupler, color-coded

End block

End clamp - E/UK - 1201442



End clamp, width: 9.5 mm, height: 35.3 mm, material: PA, length: 50.5 mm, Mounting on a DIN rail NS 32 or NS 35, color: gray

End cover

Cover plate - I-L ATP GN - 2740850



Inline end cover plate

I/O component

Inline function terminal - IB IL 24 FLM-PAC - 2736903



Inline, Branch terminal, for extending the Inline local bus to Inline or Fieldline Modular, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connector and labeling field

Labeling panel

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Accessories

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Plug

Inline shield connector - IB IL SCN-6 SHIELD - 2726353



Inline shield connector

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



Inline connector, colored

Inline connector - IB IL SCN-PWR IN-CP - 2727637



Connector, colored, for Inline power and segment terminal blocks

Remote bus cable

Remote bus cable - IBS RBC METER/F-T - 2723123



By the meter, Remote bus cable, INTERBUS, shielded, PUR halogen-free, may green RAL 6017, 6-wire (3 x 2 x 0.22 mm²), color single wire: Green-yellow, white-brown, gray-pink, flexible installation

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Accessories

Remote bus cable - IBS RBC METER-T - 2806286



By the meter, Remote bus cable, INTERBUS, shielded, PVC, may green RAL 6017, 6-wire (3 x 2 x 0.22 mm²), color single wire: Green-yellow, white-brown, gray-pink, fixed installation

Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72