IB IL 24 PWR IN/R-PAC - Feed-in module

2861674

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Inline power terminal or boost terminal, complete with accessories (connector and labeling field), 24 V DC, without fuse

Product description

The terminal is designed for use within an Inline station. If the maximum load of the bus coupler for the communications power (U_L) or the supply voltage for the analog terminals (U_{ANA}) is reached, this terminal can be used to provide these voltages 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 from this voltage. In addition, the terminal enables the feed-in of the 24 V DC main voltage (U_M) and the 24 V DC segment voltage (U_S).

Your advantages

- Supply of all 24 V voltages required for the low-level signal of an Inline station

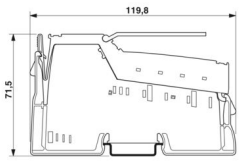
ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2861674
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI123
GTIN	4017918894511
Weight per piece (including packing)	225.9 g
Weight per piece (excluding packing)	192 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm

Notes

Note on application

Note on application	Only for industrial use

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	green (RAL 6021)

Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (Can be used in Inline stations with these transmission speeds)

System properties

Programming data

ID code (dec.)	none
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
Number of plugs	4
Special properties	24 V DC
	Supply/boost U_M, U_S, U_L, U_{ANA}

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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	3 W
Test section	7.5 V communications power, 24 V analog supply/functional ground 500 V AC 50 Hz 1 min
	7.5 V logics supply, 24 V analog supply / 24 V main supply, 24 V segment supply 500 V AC 50 Hz 1 min
	24 V main supply, 24 V segment supply/functional ground 500 V AC 50 Hz 1 min
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.
Fuse	electrical/thermal overload protection, included in scope of delivery

Supply

I/O voltage	24 V DC
I/O voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Residual ripple	± 1.2 V
Max. current consumption	8 A

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 DC (at nominal voltage; consisting of: 0.75 A DC for the communications power and 0.5 A DC for the analog voltage supply)
	min. 12 mA DC (at nominal voltage)

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Power supply	max. 2 A DC

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

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 0.5 A DC

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 (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)

Connection data

Connection technology

Connection name	Inline connector

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

Degree of protection	IP20
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)

Mechanical test

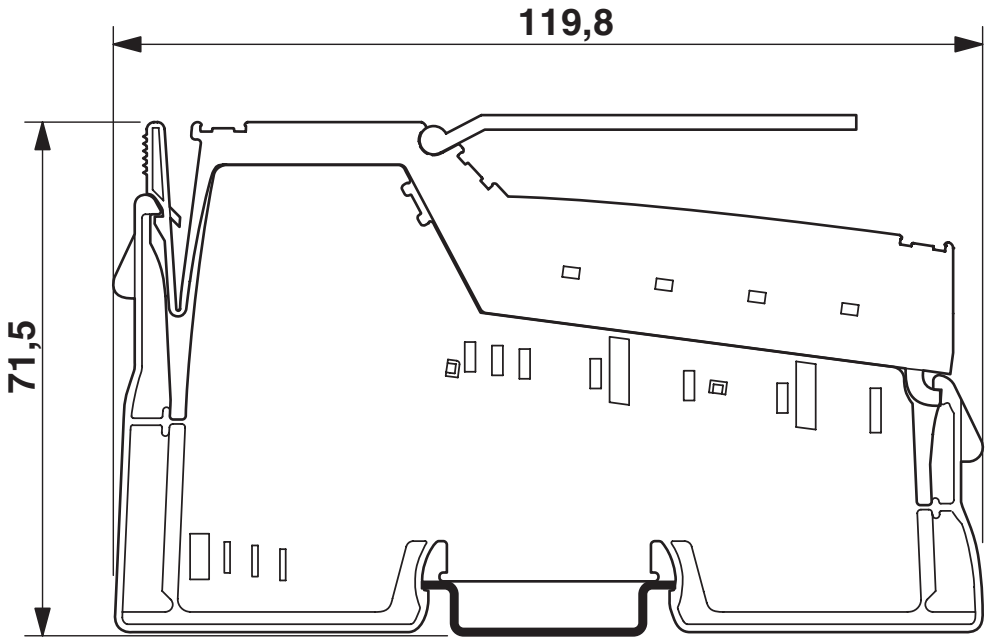
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g

Standards and regulations

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

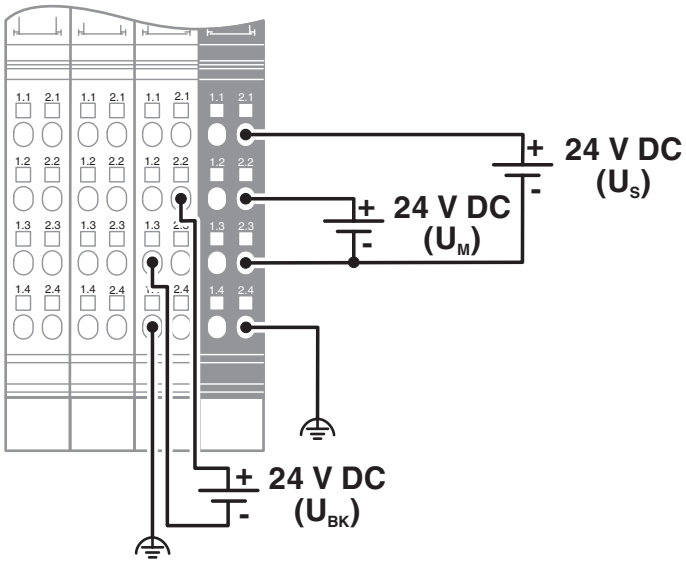
Drawings

Dimensional drawing



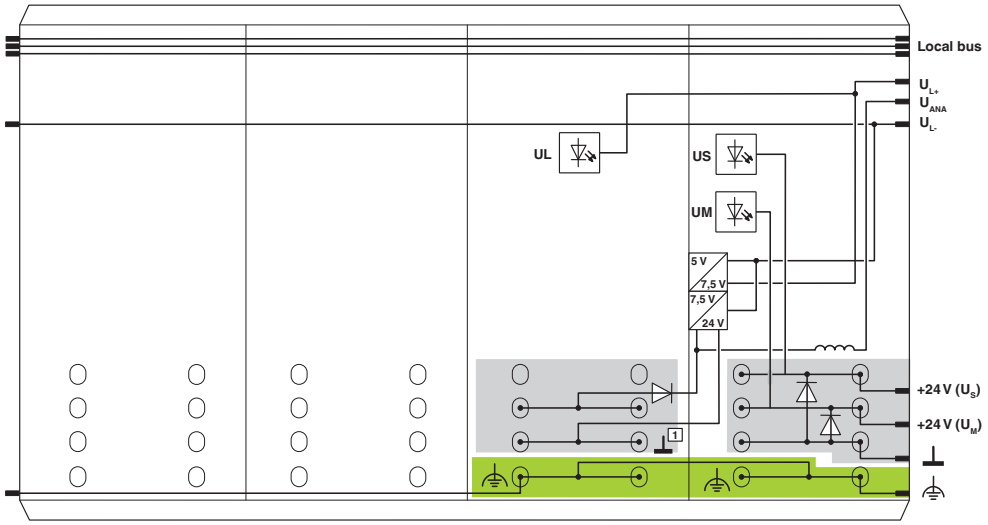
Dimensions (in mm)

Connection diagram



Connection example

Block diagram



Internal wiring of the terminal points

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2861674

BV
Approval ID: 21725/C1 BV

RINA
Approval ID: ELE121121XG

ABS
Approval ID: 22-2226444-PDA

cULus Recognized
Approval ID: E140324

LR
Approval ID: LR23398855TA

Classifications

ECLASS

ECLASS-13.0	27242610
ECLASS-15.0	27242610

ETIM

ETIM 10.0	EC001600

UNSPSC

UNSPSC 21.0	32151600

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-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	fcda40d1-1459-42b5-ada0-c9c638aad062

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