

IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal

2701162

<https://www.phoenixcontact.com/us/products/2701162>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Inline power terminal, version for extreme conditions, complete with accessories (connector and labeling field), 24 V DC, with fuse (main and segment voltage)

The figure shows the standard item

Product description

The terminal is designed for use within an Inline station. It provides a 24 V supply voltage to the main circuit (U_M) and automatically supplies power for the 24 V segment circuit (U_S). The terminal has protection against polarity reversal and surge voltage. The internal fuse protects the main and segment circuits. Thanks to special engineering measures and tests, the terminal can be used under extreme ambient conditions.

Your advantages

- Supply of the 24 V main voltage U_{M}
- Provision of the 24 V segment voltage U_{S}
- Main and segment circuits protected by an internal fuse
- Can be used under extreme ambient conditions
- Extended temperature range of -40 °C ... +70 °C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- Coated PCBs

Commercial data

Item number	2701162
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI121
GTIN	4046356713757
Weight per piece (including packing)	84.888 g
Weight per piece (excluding packing)	59 g
Customs tariff number	85389091
Country of origin	DE

IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal

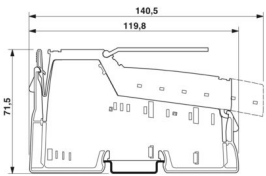


2701162

<https://www.phoenixcontact.com/us/products/2701162>

Technical data

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
-------	-------

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

Module

ID code (dec.)	none
ID code (hex)	none
Register length	0 bit
Required parameter data	0 Byte
Required configuration data	0 Byte

Product properties

Product type	I/O component
Product family	Inline
Type	modular Inline

Insulation characteristics

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

Electrical properties

Maximum power dissipation for nominal condition	1.8 W 7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
---	---

IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal



2701162

<https://www.phoenixcontact.com/us/products/2701162>

Test section	24 V supply (I/O) / functional ground 500 V AC 50 Hz 1 min
	7.5 V supply (bus logic)/functional ground 500 V AC 50 Hz 1 min
Protective circuit	Surge protection; Suppressor diode
	Reverse polarity protection; Parallel polarity protection diode
	Overload protection, short-circuit protection in the main and segment circuits; Fuse 5 x 20 with 6.3 A, slow-blow Fuses with other values can also be used. The maximum fuse value is 8 A. For fuses with a value greater than 2 A, only slow-blow fuses may be used.

Supply

Communications power U_L	7.5 V DC
----------------------------	----------

Potentials

Supply voltage	7.5 V DC (via voltage jumper)
----------------	-------------------------------

Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V ... 30 V (including all tolerances, including ripple)
Power supply	max. 6 A (sum of $U_M + U_S$)

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC (nominal value)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 6 A (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 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

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C (Standard)
	-40 °C ... 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
Ambient temperature (storage/transport)	-40 °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)

IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal



2701162

<https://www.phoenixcontact.com/us/products/2701162>

Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
----------------------------------	---

Mounting

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

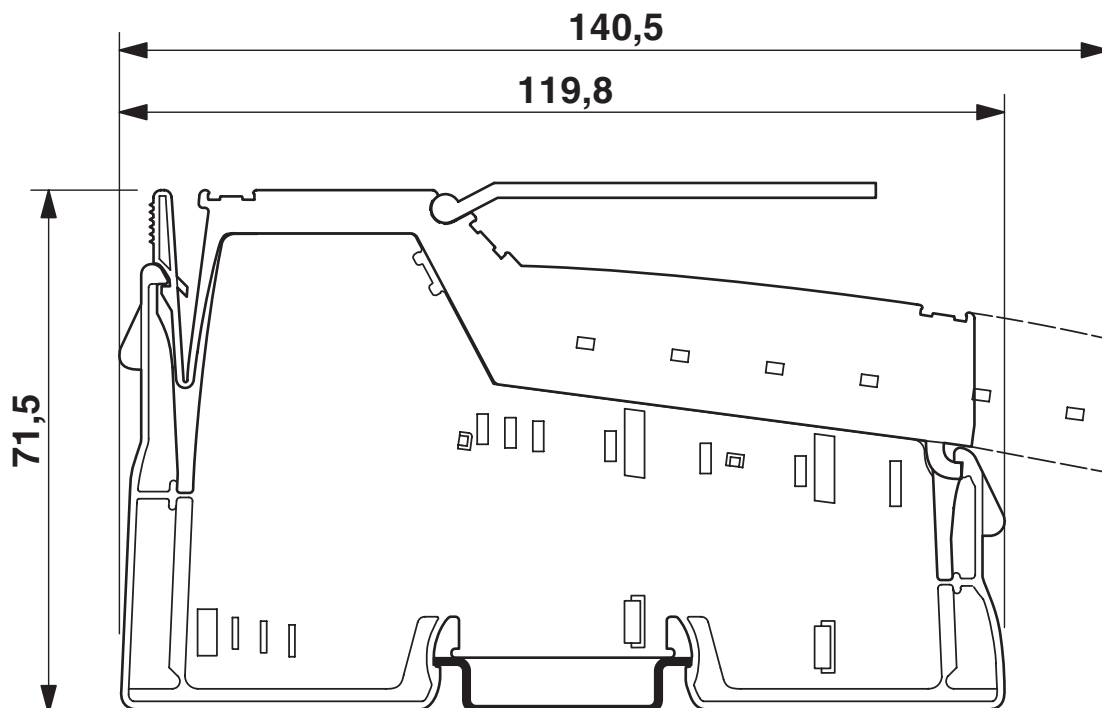
IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal

2701162

<https://www.phoenixcontact.com/us/products/2701162>

Drawings

Dimensional drawing

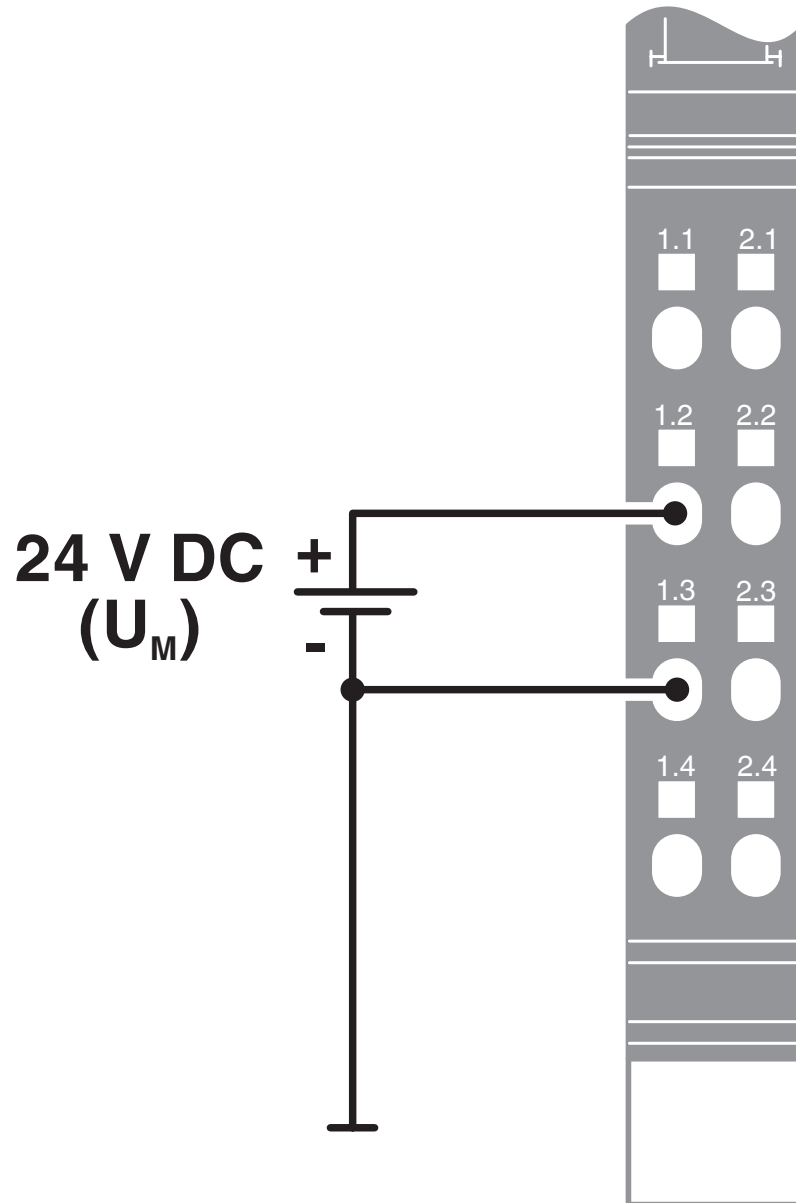


IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal

2701162

<https://www.phoenixcontact.com/us/products/2701162>

Connection diagram



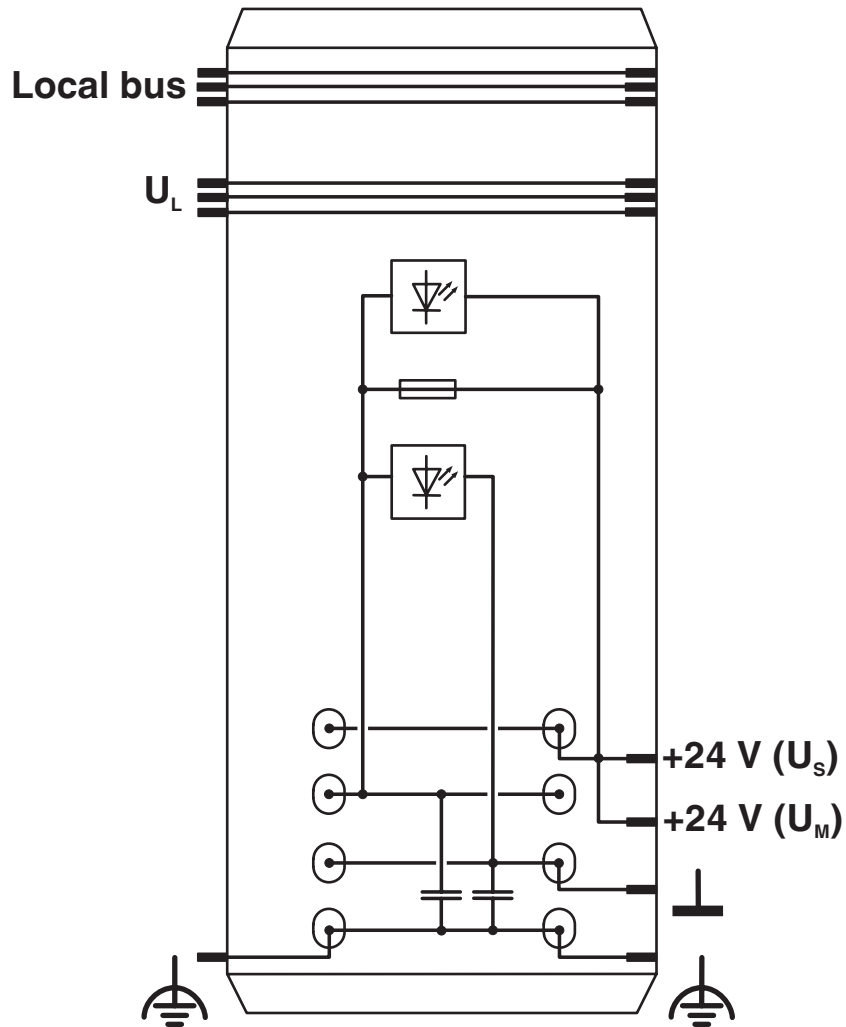
IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal

2701162

<https://www.phoenixcontact.com/us/products/2701162>



Block diagram



IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal



2701162

<https://www.phoenixcontact.com/us/products/2701162>

Environmental product compliance

China RoHS

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

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com