IB IL 24 SEG-ELF-PAC - Segmentation module

2861409

https://www.phoenixcontact.com/us/products/2861409

Inline segment terminal block, complete with accessories (connector and labeling field), 24 V DC, electronic fuse

Product description

The terminal is designed for use within an Inline station. This terminal can be used to create a partial circuit (segment circuit) within a main circuit. The terminal is not used for voltage supply. It therefore does not have any elements for protection against polarity reversal and surge voltage. This terminal has an LED for bus diagnostics. It occupies two input data bits, which indicate the status of the electronic fuse.

Your advantages

• Automatic creation of a segment circuit in the main circuit

• Protection of the segment circuit using an electronic fuse with short-circuit current limitation

• Diagnostic and status indicators

Commercial data

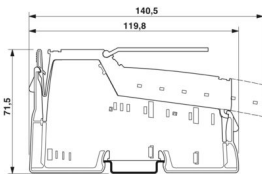|	
Item number	2861409
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI122
GTIN	4017918894344
Weight per piece (including packing)	77.2 g
Weight per piece (excluding packing)	44 g
Customs tariff number	85389099
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
Width	12.2 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.

Interfaces

Inline local bus	
Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps

System properties

Module	
ID code (dec.)	190
ID code (hex)	BE
Length code (hex)	C2
Length code (dec)	194
Process data channel	2 bit
Input address area	2 bit
Output address area	0 bit
Register length	2 bit
Required parameter data	1 Byte
Required configuration data	4 Byte

Product properties

Product type	I/O component
Product family	Inline

Type	modular
Installation location	Control cabinet
Number of plugs	1

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

Electrical properties

Maximum power dissipation for nominal condition	0.65 W
Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
	24 V supply (I/O) / functional ground 500 V AC 50 Hz 1 min
Protective circuit	Overload protection
Fuse	2.5 A (electronic)

Supply	
I/O voltage	24 V DC
I/O voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 1.2 V
Max. current consumption	2.5 A
Typical current consumption	30 mA

Potentials: Communications power (U_L)	
Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 30 mA

Potentials: Main circuit supply (U_M)	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 2.5 A (nominal value)

Potentials: Segment circuit supply (U_S)	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

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

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.)
Permissible humidity (storage/transport)	75 % ... 85 % (Slight temporary condensation may sometimes appear on the housing, e.g. when the terminal block is brought out of a vehicle into an enclosed room.)

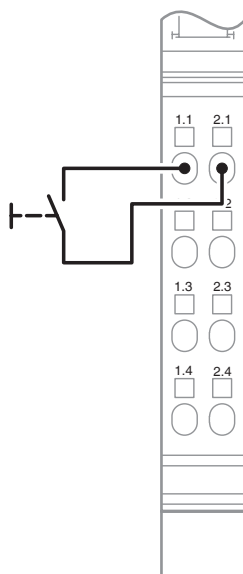## Mounting

Mounting type	DIN rail mounting

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Drawings

Dimensional drawing

140,5

119,8

71,5
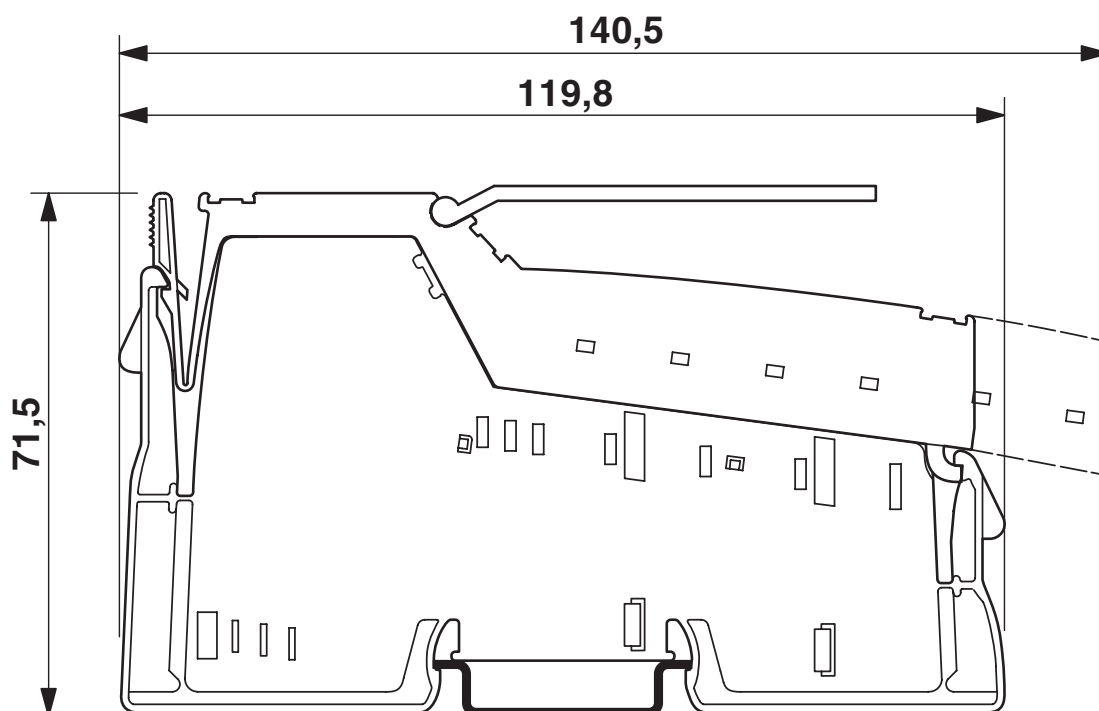
Connection diagram

Button for resetting the fuse

1.1 2.1

1.3 2.3

1.4 2.4

U$_M$ and U$_S$ connected internally via fuse

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Block diagram
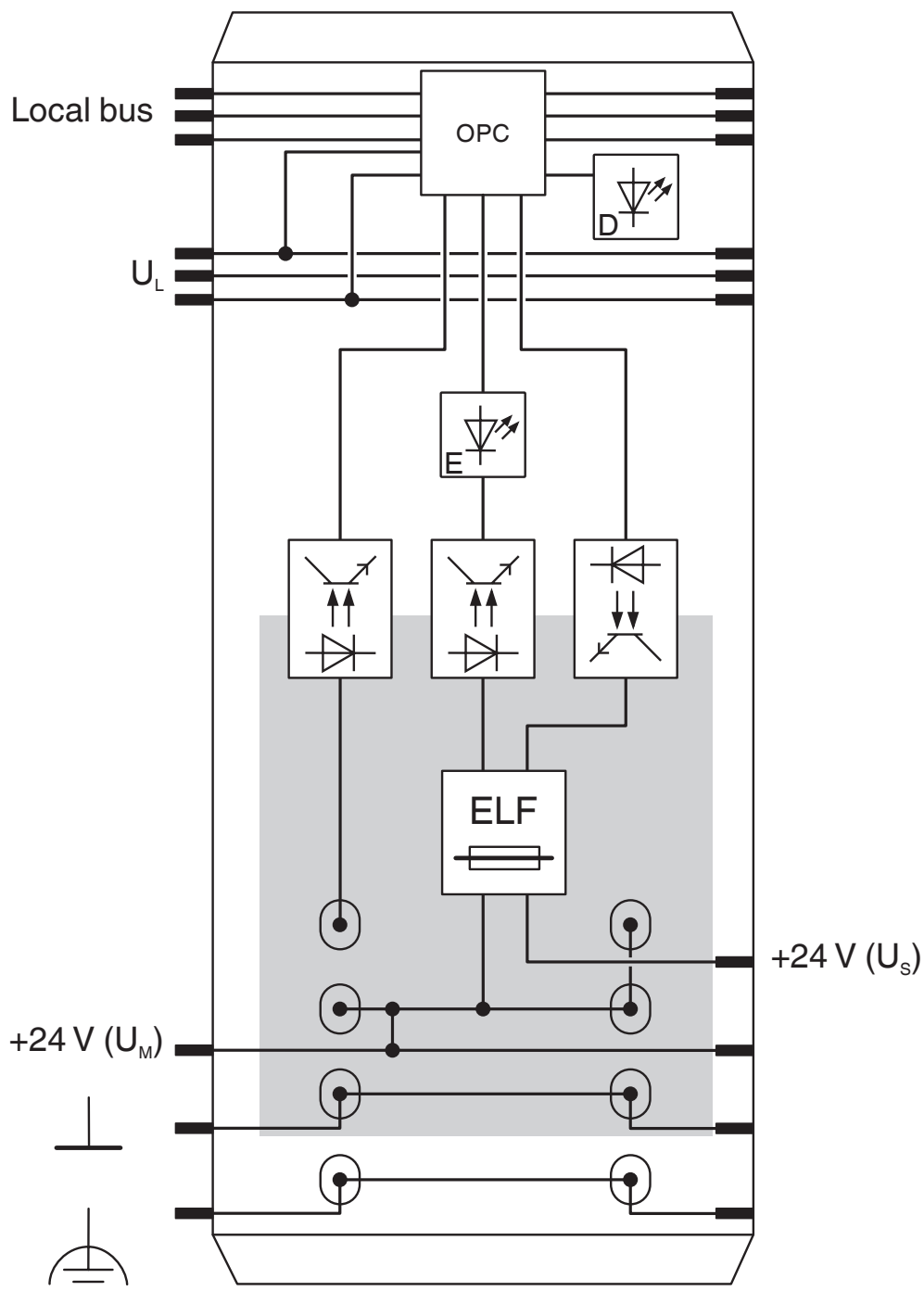
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2861409

cULus Recognized
Approval ID: E140324

cULus Listed
Approval ID: E199827

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Classifications

ECLASS

ECLASS-13.0	27242610
ECLASS-15.0	27242610

ETIM

ETIM 9.0	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	ca15da44-58e3-4ea9-9a5a-249a05940329

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