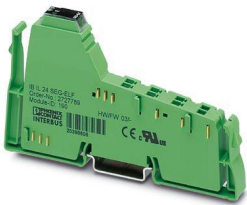


IB IL 24 SEG-ELF - Inline terminal

2727789

<https://www.phoenixcontact.com/us/products/2727789>

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Inline segment terminal block, without accessories, 24 V DC, electronic fusing

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

- Diagnostic and status indicators
- Protection of the segment circuit using an electronic fuse with short-circuit current limitation
- Automatic creation of a segment circuit in the main circuit

Commercial data

Item number	2727789
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI122
GTIN	4017918363154
Weight per piece (including packing)	59.7 g
Weight per piece (excluding packing)	45.39 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

Type	modular
Number of plugs	1

Insulation characteristics

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

Local diagnostics

Error messages via the bus	Short-circuit/Overload in segment circuit
	Operating voltage fallen below or exceeded

Programming data

Length code (hex)	C2
ID code (dec.)	190
Length code (dec)	194
Process data channel	2 bit
Input address area	2 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	2 bit

Fieldbus data telegram

Required parameter data	1 Byte
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Electrical properties

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

Supply voltage	7.5 V DC
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Current draw	30 mA DC (maximum)
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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

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Power supply	2.5 A (nominal value)

Connection data

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

Interfaces

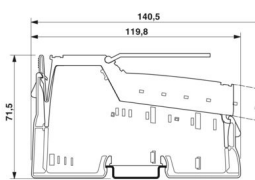
Supply voltage

Connection method	Inline potential distributor
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Inline local bus

Connection method	Inline data jumper
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Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
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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

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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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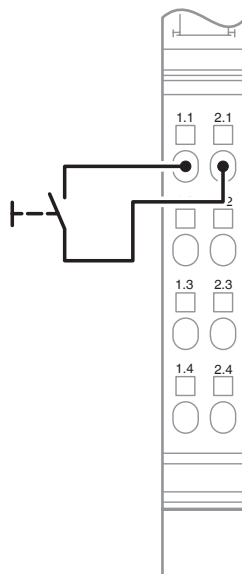
Drawings

Dimensional drawing



Connection diagram

Button for
resetting the
fuse



U_M and U_S connected
internally via fuse

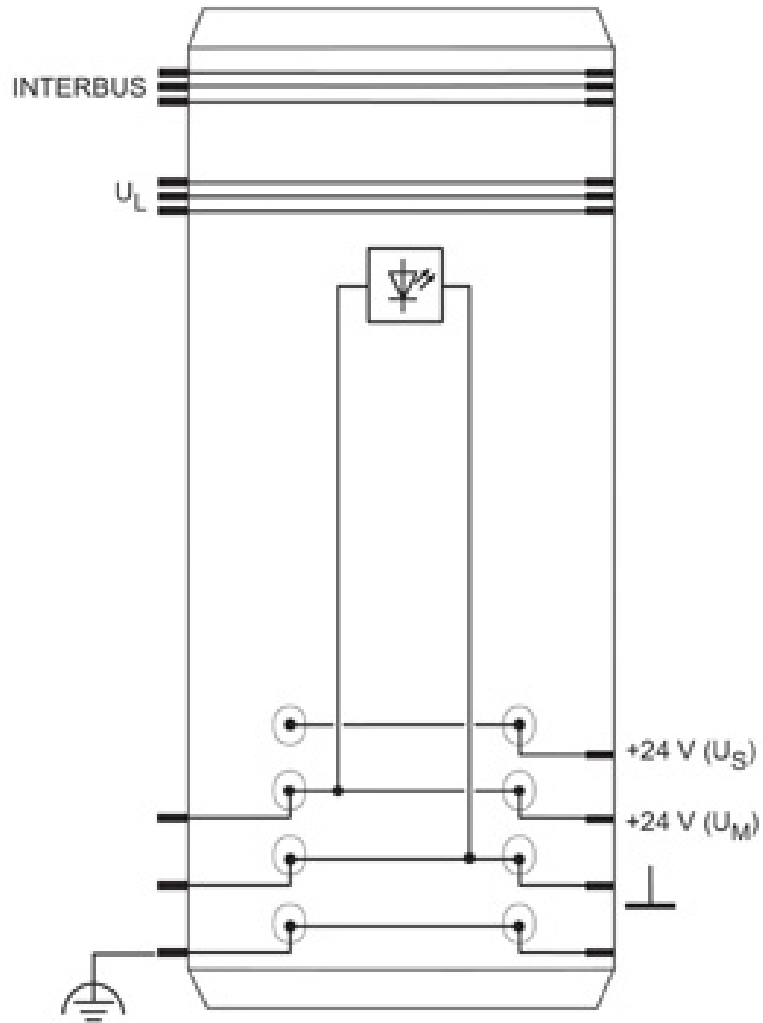
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Block diagram



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Environmental product compliance

EU REACH SVHC

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