IB IL 24 SAFE 1-PAC - Safety terminal

2861564

https://www.phoenixcontact.com/us/products/2861564

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Inline safety terminal, complete with accessories (connector and labeling field), 2 N/O contacts, 24 V DC

Product description

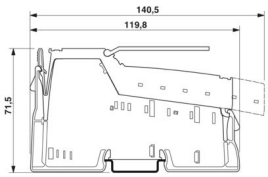
The safety terminal block is designed for use within the 24 V section of an INTERBUS Inline station. It can be used as an emergency stop safety relay, protective doorkeeper and secondary switchgear for switching strips and safety mats.
The wiring dictates the safety category.
The principle of the safety switch off is as follows: when the input circuit opens, the safety contacts also open and there is a fail-safe switch off of the following segment circuit of the Inline system.
The fail-safe segment circuit starts at terminal IB IL SAFE 1 and ends with the final terminal before a new line entry or at the end of the station. Only Inline terminals with have been specially approved for this purpose may be used in the fail-safe segment circuit. Please refer to the latest data sheet of the IB IL SAFE 1 or the Internet for information.

Commercial data

Item number	2861564
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DNA45Z
GTIN	4017918899905
Weight per piece (including packing)	336.4 g
Weight per piece (excluding packing)	318.9 g
Customs tariff number	85369010
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	73 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green

Interfaces

Inline local bus

Connection method	Inline data jumper

System properties

Fieldbus data telegram

Required parameter data	1 Byte

Output data

Digital:

Output name	Relay output
Number of outputs	2
Protective circuit	Short-circuit and overload protection; Fuse (4 A slow-blow)
Maximum output current per channel	4 A
Nominal load, ohmic	max. 120 W
Signal delay	typ. 20 ms (Release time)

Relay

Contact switching type	2 N/O contacts
Contact connection type	Positively driven
Switching voltage	24 V DC
Switching current	4 A (at 24 V DC)
Switching power	120 W
Min. switching current	100 mA
Switching frequency	max. 10 (per minute)
Release time	< 20 ms

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Mounting position	Horizontal DIN rail
No. of channels	2

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V (via voltage jumper)
Current draw	max. 35 mA

Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC
Current draw	max. 75 mA (HW 01)

Supply: Module electronics

Connection method	Through the potential jumper
Supply voltage	24 V DC (on S11, S21, S41; supply from: main circuit)
Supply voltage range	20.4 V DC ... 27.6 V DC (including ripple)
Supply current	max. 4 A (Current carrying capacity of potential jumpers)

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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 % (75% average, 85% seldom)
Permissible humidity (storage/transport)	75 % ... 85 % (75% average, 85% seldom)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Load 2g, 2 h in each direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	5g, 11 ms period, three shocks in each direction
	2g for 11 ms, three shocks in each direction

Standards and regulations

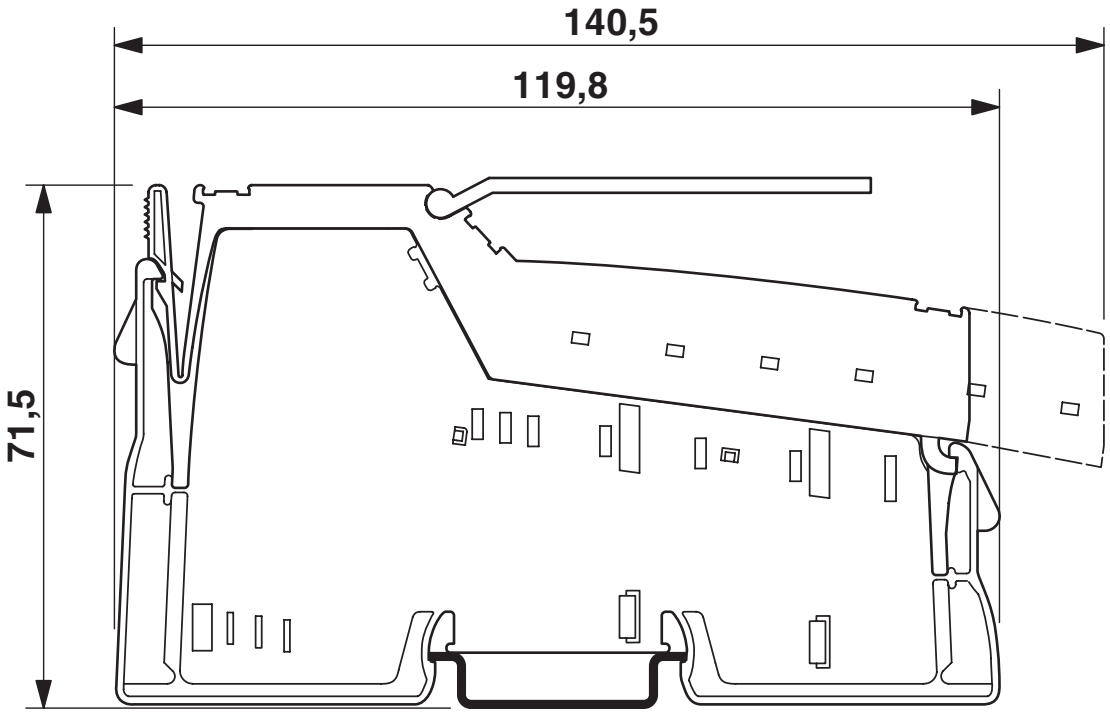
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

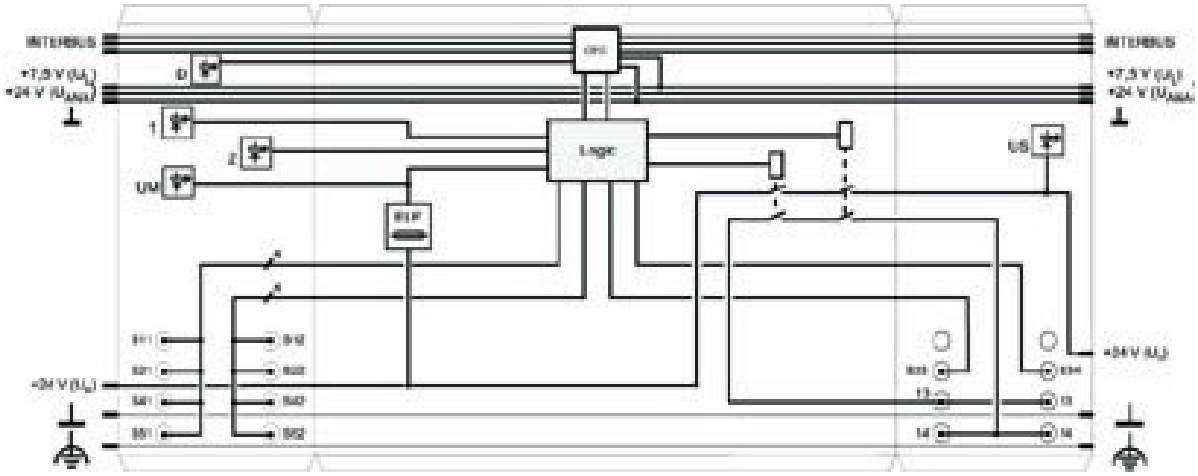
Drawings

Dimensional drawing



Connection diagram

Block diagram



Environmental product compliance

EU REACH SVHC

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

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