

IB IL 24 DO 8-NPN-PAC - Inline terminal



2863546
<https://www.phoenixcontact.com/us/products/2863546>

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Inline, Digital output terminal, Digital outputs: 8 (NPN), 24 V DC, connection technology: 4-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The terminal is designed for use within an Inline station. It is used to output digital signals.

Your advantages

- Connections for 8 digital actuators, npn-wired
- Connection of actuators in 2-, 3-, and 4-conductor technology
- Nominal current of each output: 1 A
- Total current of the terminal: 8 A
- Short-circuit and overload-protected outputs
- Diagnostic and status indicators

Commercial data

Item number	2863546
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI132
Catalog page	Page 154 (C-6-2017)
GTIN	4017918941222
Weight per piece (including packing)	205.9 g
Weight per piece (excluding packing)	130 g
Customs tariff number	85389091
Country of origin	DE

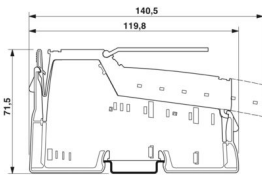
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Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.5 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

Interfaces

Inline local bus	
No. of channels	2
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module	
ID code (dec.)	189
ID code (hex)	BD
Length code (hex)	81
Length code (dec)	129
Process data channel	8 bit
Input address area	0 Byte
Output address area	1 Byte
Register length	8 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

Digital:	
Output name	Digital outputs

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Connection method	Spring-cage connection
Connection technology	4-conductor
Number of outputs	8 (NPN)
Protective circuit	Overload protection, short-circuit protection of outputs
Output voltage	24 V DC
Maximum output current per channel	1 A
Maximum output current per module	8 A
Nominal output voltage	24 V DC
Nominal load, inductive	24 VA
Nominal load, lamp	24 W
Nominal load, ohmic	24 W
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of delivery	including Inline connectors and marking fields
No. of channels	8
Operating mode	Process data mode with one byte
Diagnostics messages	Short-circuit or overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 60 mA

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 8 A

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min.
Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min.

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Test voltage: 24 V supply (I/O) / functional ground

500 V AC, 50 Hz, 1 min.

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

Ambient temperature (operation)

-25 °C ... 55 °C

Degree of protection

IP20

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)

Ambient temperature (storage/transport)

-25 °C ... 85 °C

Permissible humidity (operation)

10 % ... 95 % (according to DIN EN 61131-2)

Permissible humidity (storage/transport)

10 % ... 95 % (according to DIN EN 61131-2)

Standards and regulations

Protection class

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

Mounting

Mounting type

DIN rail mounting

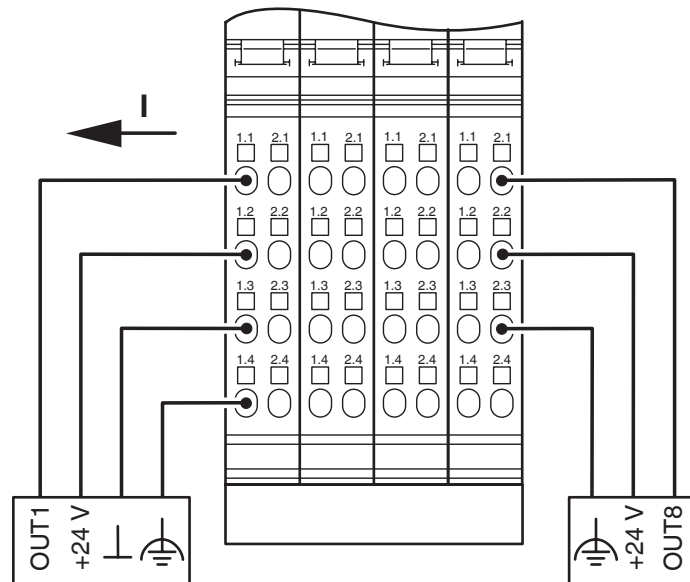
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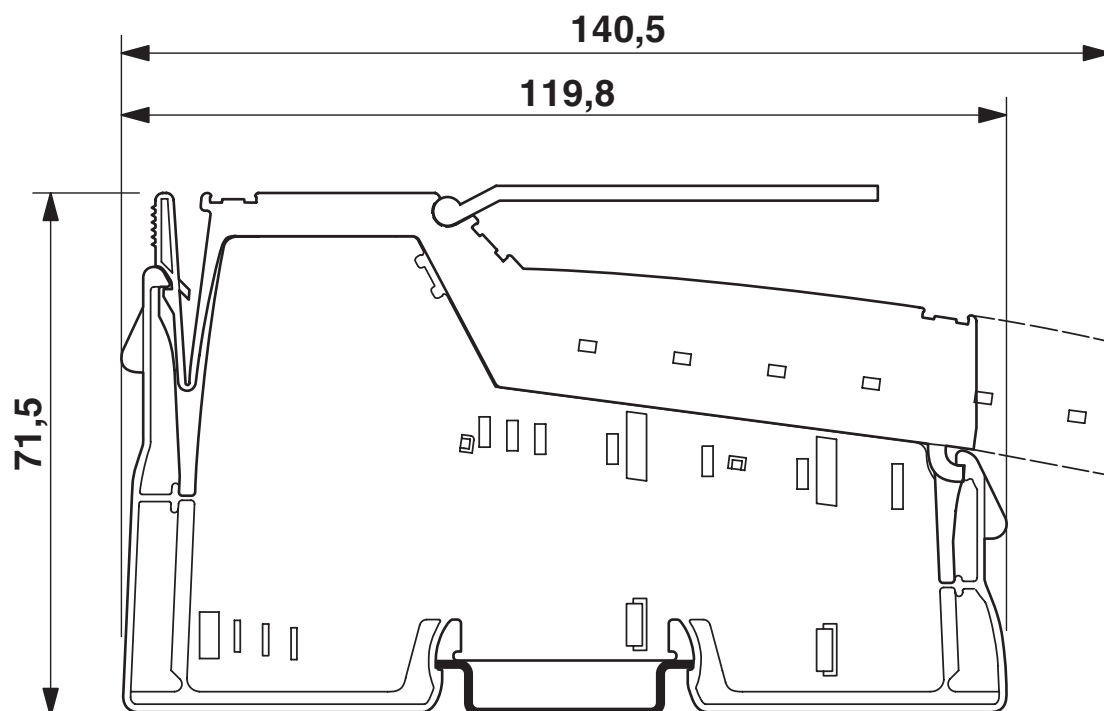
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Drawings

Connection diagram



Dimensional drawing



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%

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Accessories

IB IL DI/DO 8-PLSET - Connector set

2860950

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Connector set



IB IL SCN-8-CP - Inline connector

2727608

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Inline connector, colored



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IB IL SCN-8 - Inline connector

2726337

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Connector, for digital 1, 2 or 8-channel Inline terminals



IB IL FIELD 2 - Marking field

2727501

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Marking field, width: 12.2 mm



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IB IL FIELD 8 - Marking field

2727515

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Marking field, width: 48.8 mm



ESL 62X10 - Insert strip

0809492

<https://www.phoenixcontact.com/us/products/0809492>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, CMS-P1-PLOTTER, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72



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ESL 62X46 - Insert strip

0809502

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Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, CMS-P1-PLOTTER, mounting type: insert, lettering field size: 62 x 46 mm, Number of individual labels: 15



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