

IB IL 24 DO 2-2A-PAC - Digital module



2861263
<https://www.phoenixcontact.com/it/products/2861263>

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Inline, Digital output terminal, Digital outputs: 2, 24 V DC, 2 A, connection technology: 4-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Product description

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

Your advantages

- 2 digital outputs
- Connection of actuators in 2-, 3-, and 4-conductor technology
- Nominal current per output: 2 A
- Total current of the terminal: 4 A
- Short-circuit and overload-protected outputs
- Approved for use in a safety-related segment circuit

Commercial data

Item number	2861263
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI
Product key	DRI132
Catalog page	Page 131 (C-6-2019)
GTIN	4017918894207
Weight per piece (including packing)	88.3 g
Weight per piece (excluding packing)	82.1 g
Customs tariff number	85389091
Country of origin	DE

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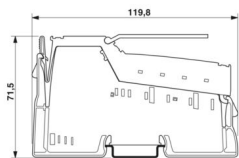


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Technical data

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

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

System properties

Module	
ID code (dec.)	189
ID code (hex)	BD
Length code (hex)	C2
Length code (dec)	194
Process data channel	2 bit
Input address area	0 bit
Output address area	2 bit
Register length	2 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

Digital	
Output name	Digital outputs
Connection method	Spring-cage connection

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Connection technology	4-conductor
Number of outputs	2
Protective circuit	Overload protection, short-circuit protection; electronic
Output voltage	24 V DC ($U_S - 1\text{ V}$)
Output current	max. 2 A (per channel) max. 4 A (per device)
Maximum output current per channel	2 A
Maximum output current per module	4 A
Nominal output voltage	24 V DC
Nominal load, inductive	48 VA (1,2 H, 12 Ω)
Nominal load, lamp	48 W
Nominal load, ohmic	48 W (12 Ω)
Maximum operating frequency with ohmic nominal load	max. 300 Hz (this switching frequency is limited by the number of bus devices, the structure of the bus, the software used and the control or computer system used)
Reverse voltage resistance to short pulses	Reverse voltage proof
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

Type	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connector and labeling field
No. of channels	2
Operating mode	Process data mode with 2 bits
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

Maximum power dissipation for nominal condition	2.4 W
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 35 mA
Power consumption	max. 0.27 W

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. 4 A

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Electrical isolation/isolation of the voltage ranges

Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 7.5 V supply (bus logic)/functional ground	500 V AC, 50 Hz, 1 min.

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

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

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

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 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Standards and regulations

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

Mounting type	DIN rail mounting
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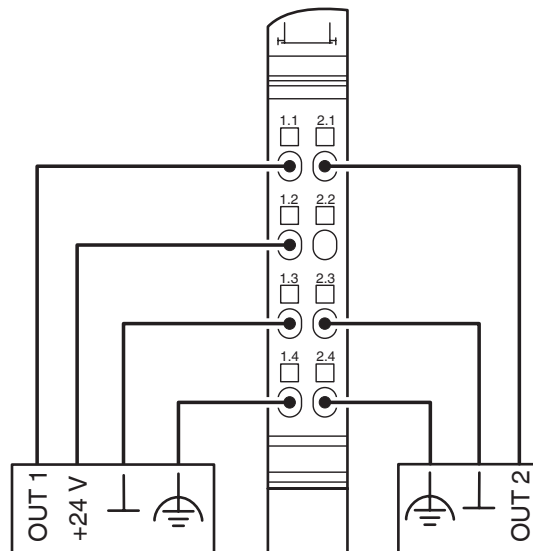
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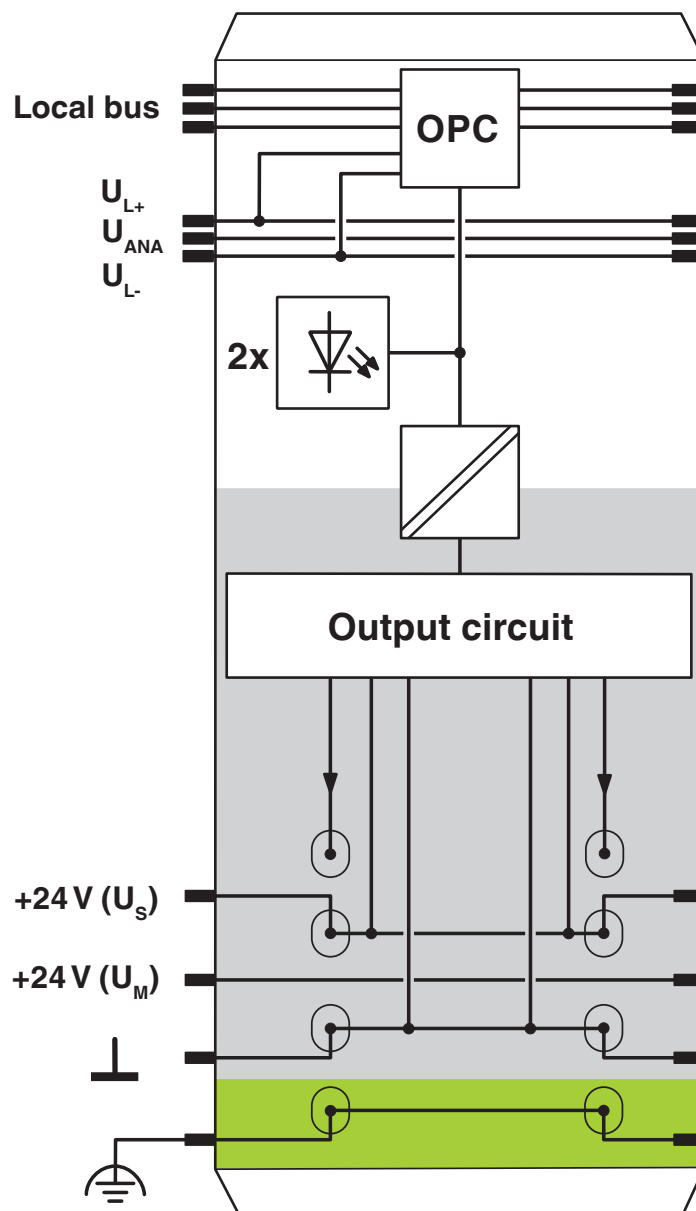


Drawings

Connection diagram



Block diagram



Internal wiring of the terminal points

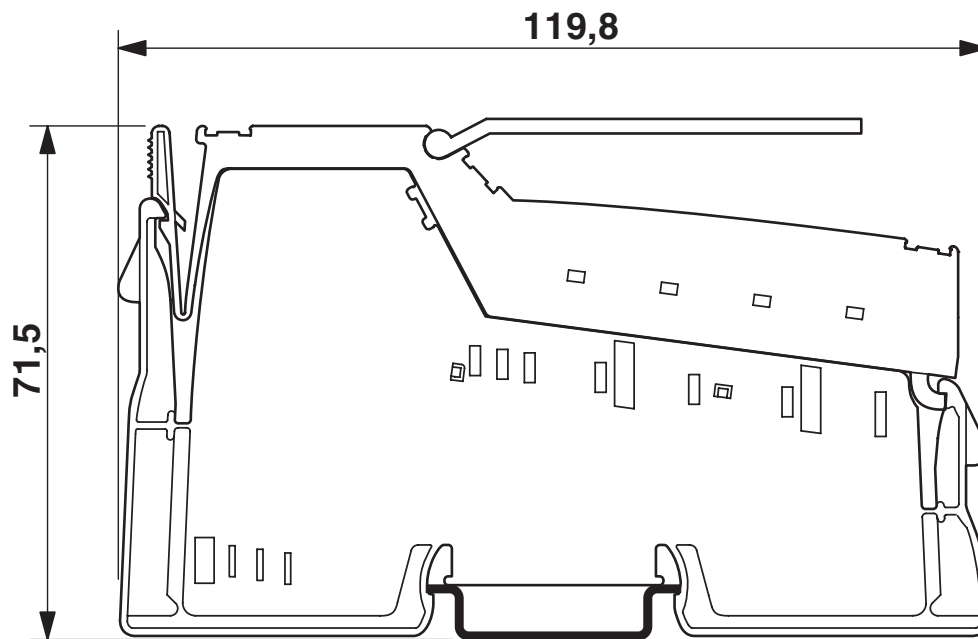
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Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/it/products/2861263>



UL Recognized
Approval ID: FILE E 140324



EAC
Approval ID: TR TS_D_01921-19

Functional Safety
Approval ID: 968/EL 711.05/16

UAE-RoHS
Approval ID: 22-04-13090



cUL Listed
Approval ID: FILE E 199827



UL Listed
Approval ID: FILE E 199827

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604

ETIM

ETIM 9.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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