

# IB IL 24 DO 2-PAC - Digital module



2861470

<https://www.phoenixcontact.com/in/products/2861470>

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Inline, Digital output terminal, Digital outputs: 2, 24 V DC, 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: 500 mA
- Total current of the terminal: 1 A
- Short-circuit and overload-protected outputs
- Diagnostic and status indicators

## Commercial Data

Item number	2861470
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI
Product Key	DRI132
Catalog Page	Page 128 (C-6-2019)
GTIN	4017918894399
Weight per Piece (including packing)	86.3 g
Weight per Piece (excluding packing)	41 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
Note on dimensions	Housing dimensions

### Notes

#### Utilization restriction

CCEx note	Use in potentially explosive areas is not permitted in China.
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### Material specifications

Color	green
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### 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 Byte
Output address area	2 bit
Register length	2 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

### Output data

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## Digital

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	4-conductor
Number of outputs	2
Protective circuit	Overload protection, short-circuit protection of outputs
Output voltage	24 V DC
Maximum output current per channel	500 mA
Maximum output current per module	1 A
Nominal output voltage	24 V DC
Nominal load, inductive	12 W
Nominal load, lamp	12 W
Nominal load, ohmic	12 VA
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
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

## Electrical properties

No. of channels	2
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### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 33 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. 1 A

## Connection data

### Connection technology

Connection name	Inline connector
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### Conductor connection

Connection method	Spring-cage connection
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Conductor cross section rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

## Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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)
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## Mounting

Mounting type	DIN rail mounting
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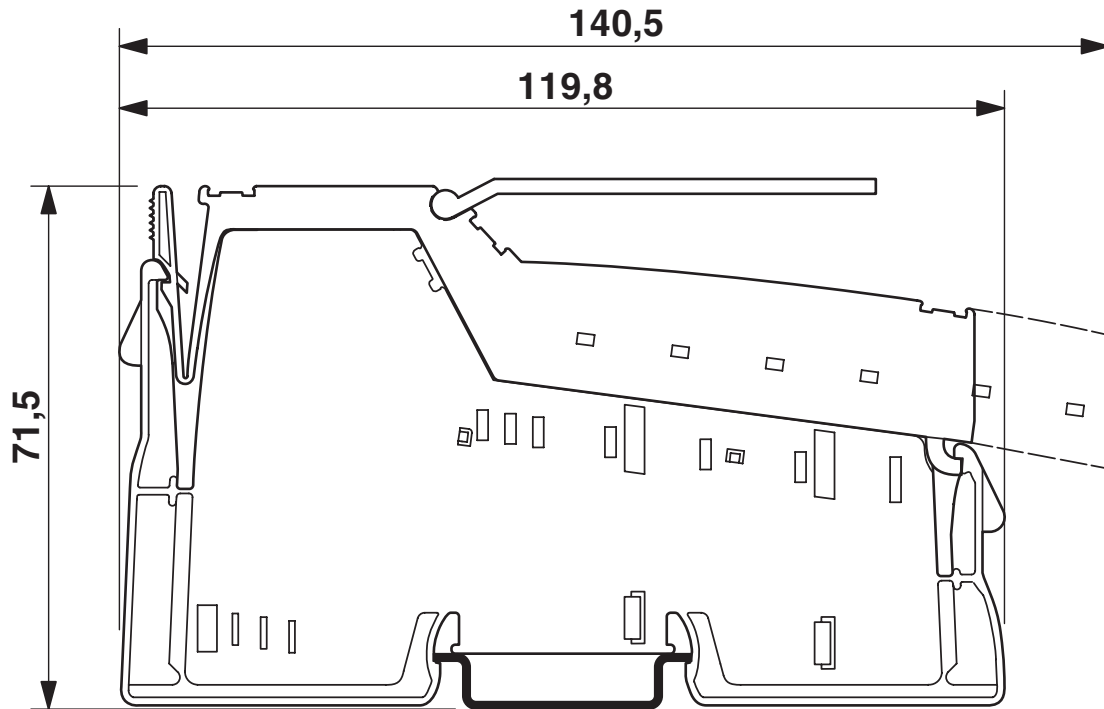


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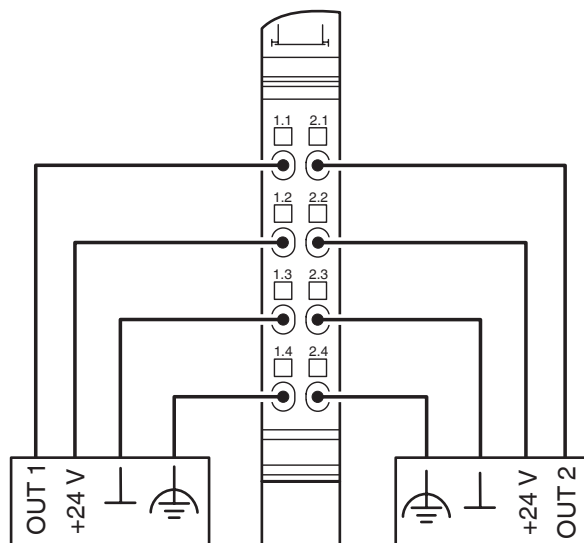
<https://www.phoenixcontact.com/in/products/2861470>

## Drawings

Dimensional drawing



Connection diagram

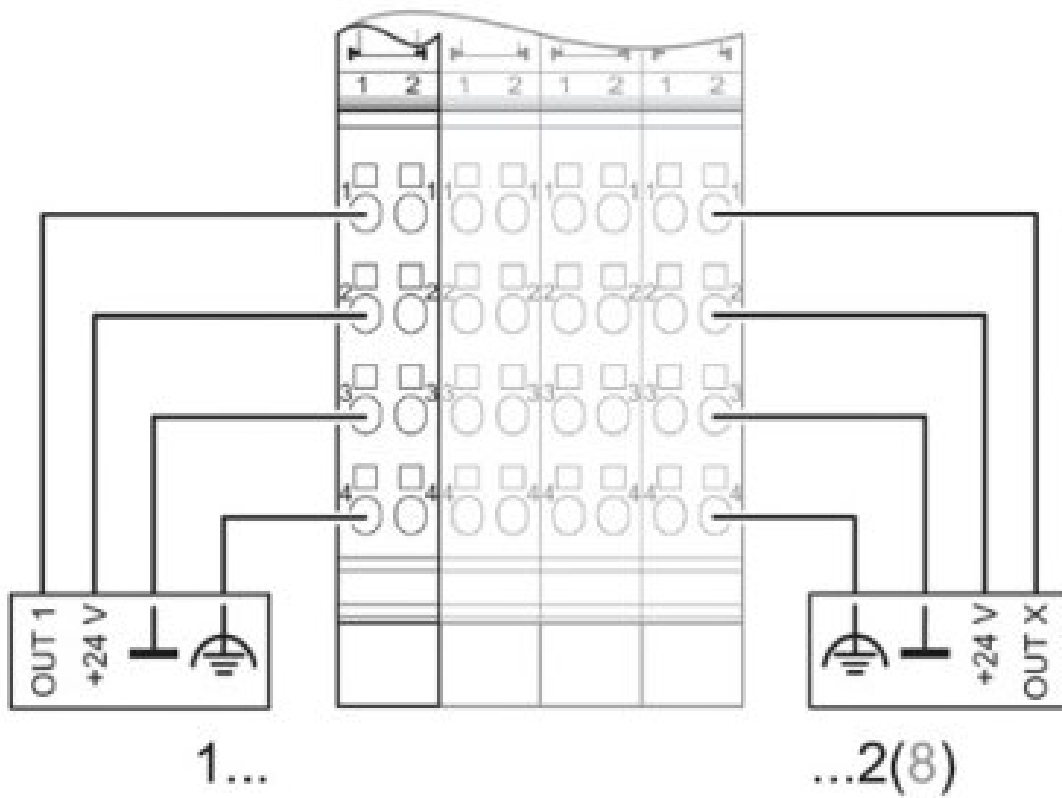


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Connection diagram



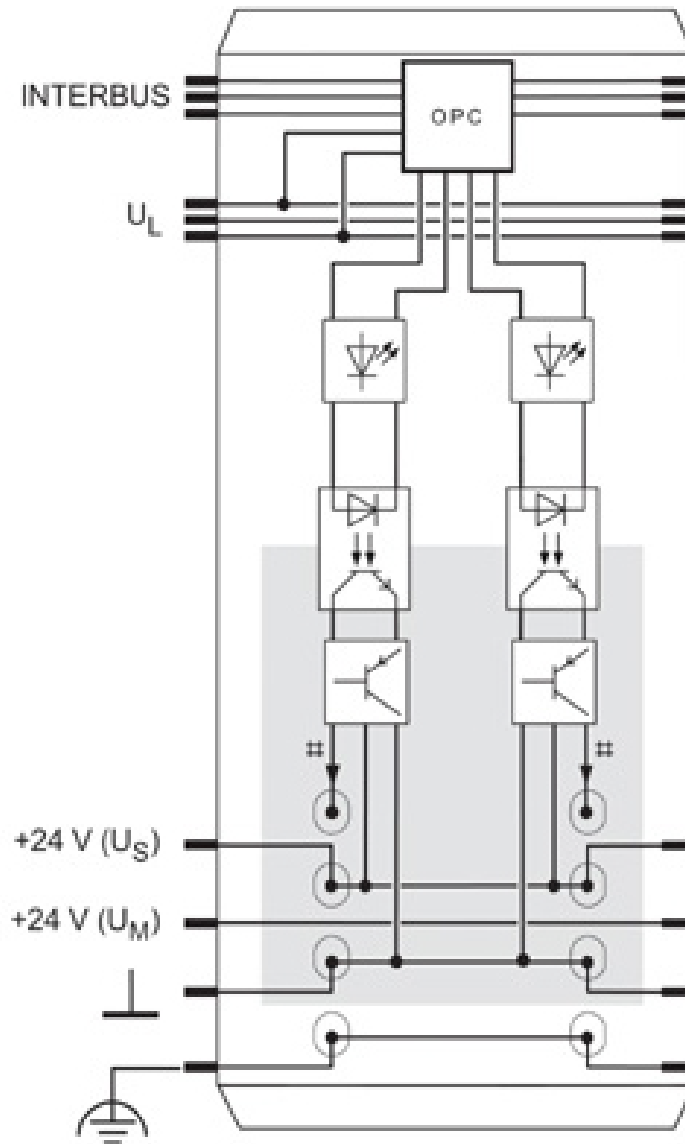
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Block diagram



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## Approvals



**UL Recognized**

Approval ID: FILE E 140324



**EAC**

Approval ID: TR TS\_D\_01921-19



**DNV GL**

Approval ID: TAA00000BN



**LR**

Approval ID: LR22191720TA



**BV**

Approval ID: 20989/B2\_BV



**RINA**

Approval ID: ELE121121XG



**cUL Listed**

Approval ID: FILE E 199827



**UL Listed**

Approval ID: FILE E 199827



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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC001599
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

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## Accessories

### 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



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## IB IL FIELD 2 - Labeling field

2727501

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Labeling field, width: 12.2 mm



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## ESL 62X10 - Insert strip

0809492

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

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



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