

# IB IL 24 DO 16-PAC - Digital module



2861292

<https://www.phoenixcontact.com/in/products/2861292>

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Inline, Digital output terminal, Digital outputs: 16, 24 V DC, 500 mA, connection technology: 3-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

- 16 digital outputs
- Connection of actuators in 2- and 3-conductor technology
- Nominal current per output: 500 mA
- Total current of the terminal: 8 A
- Short-circuit and overload-protected outputs

## Commercial Data

Item number	2861292
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI
Product Key	DRI132
Catalog Page	Page 129 (C-6-2019)
GTIN	4017918894238
Weight per Piece (including packing)	242.1 g
Weight per Piece (excluding packing)	218 g
Customs tariff number	85389099
Country of origin	DE

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## Technical Data

### Dimensions

Dimensional drawing	
Width	48.8 mm
Height	140.5 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)	01
Length code (dec)	01
Process data channel	16 bit
Input address area	0 Byte
Output address area	2 Byte
Register length	16 bit
Required parameter data	4 Byte
Required configuration data	4 Byte

### Output data

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## Digital

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Overload protection, short-circuit protection; electronic
Output voltage	24 V DC ( $U_S - 1$ V)
Maximum inrush current	max. 1.5 A (at nominal lamp load for 20 ms)
Output current	max. 500 mA (per channel) max. 8 A (Device)
Nominal output voltage	24 V DC
Output voltage when switched off	max. 2 V
Output current when switched off	max. 300 $\mu$ A
Nominal load, inductive	12 W (1.2 H, 48 $\Omega$ )
Nominal load, lamp	12 W
Nominal load, ohmic	12 VA (48 $\Omega$ )
Maximum operating frequency with ohmic nominal load	max. 300 Hz (this switching frequency is limited by the data rate selected, 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 connectors and marking fields
No. of channels	16
Operating mode	Process data mode with one word
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

No. of channels	16
Maximum power dissipation for nominal condition	18.36 W

## Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 90 mA

Power consumption	max. 0.675 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. 8 A

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

## Standards and regulations

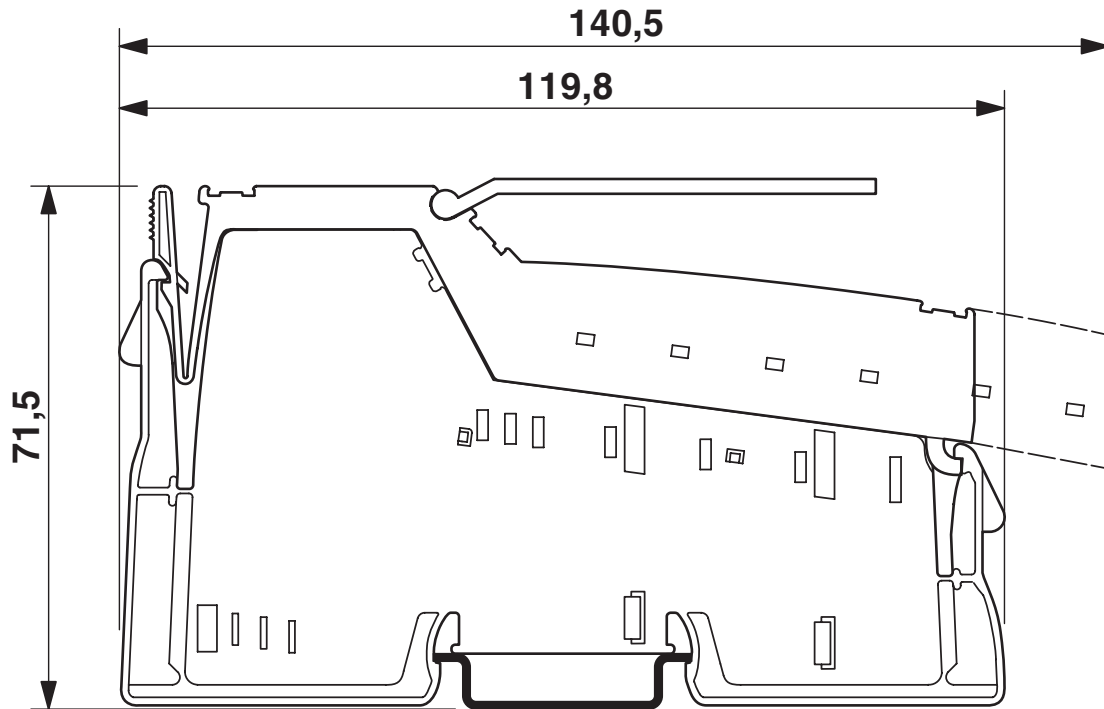
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

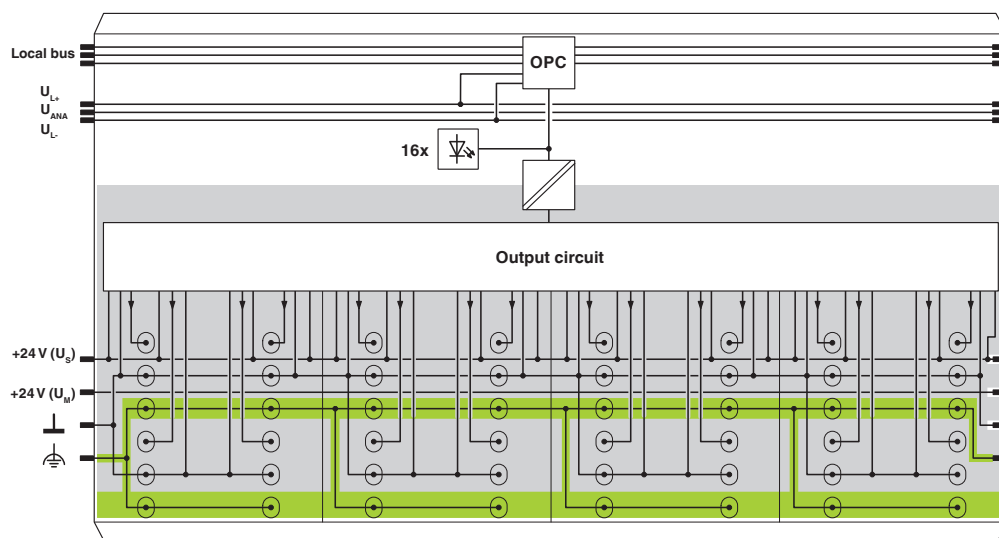
Mounting type	DIN rail mounting
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## Drawings

Dimensional drawing



Block diagram



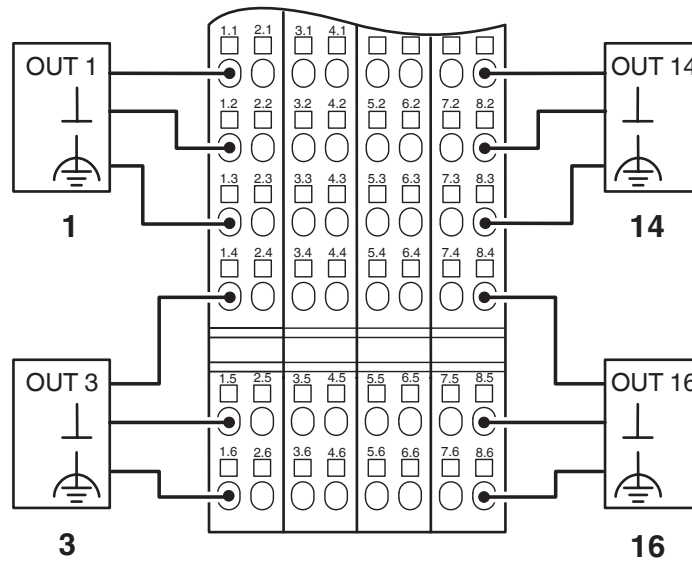
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Connection diagram



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## Approvals



**UL Recognized**

Approval ID: FILE E 140324



**DNV GL**

Approval ID: TAA00000BN



**LR**

Approval ID: LR22191720TA



**RINA**

Approval ID: ELE121121XG



**LR**

Approval ID: LR22191720TA



**EAC**

Approval ID: TR TS\_D\_01921-19



**ATEX**

Approval ID: PxCIF16ATEX2862822X



**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

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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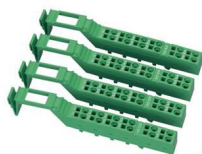


## Accessories

### IB IL DO16-PLSET/OCP - Connector set

2860992

<https://www.phoenixcontact.com/in/products/2860992>



Connector set, for IB IL DO 16, copper, colored identification.

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### IB IL SCN-12-OCP - Inline connector

2727624

<https://www.phoenixcontact.com/in/products/2727624>



Connector, colored identification, for digital 4, or 16-channel Inline output terminal blocks

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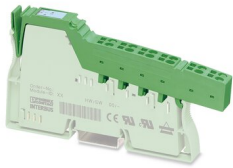


## IB IL SCN-12 - Inline connector

2726340

<https://www.phoenixcontact.com/in/products/2726340>

Connector, for digital 4 or 16-channel Inline terminals



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## IB IL FIELD 2 - Labeling field

2727501

<https://www.phoenixcontact.com/in/products/2727501>

Labeling field, width: 12.2 mm



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## IB IL FIELD 8 - Labeling field

2727515

<https://www.phoenixcontact.com/in/products/2727515>

Labeling field, width: 48.8 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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## ESL 62X46 - Insert strip

0809502

<https://www.phoenixcontact.com/in/products/0809502>

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



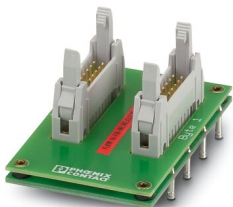
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## FLKM 14-PA-INLINE/OUT16 - Front adapters

2302764

<https://www.phoenixcontact.com/in/products/2302764>

VARIOFACE front adapter for Inline modules, for transferring 16 (2 x 8) digital output signals.



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