

# Digital module - IB IL 24 DO 32/HD-PAC



2862822

<https://www.phoenixcontact.com/nz/products/2862822>

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Inline, Digital output terminal, Digital outputs: 32, 24 V DC, 500 mA, connection technology: 1-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

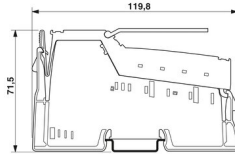
- 32 digital outputs
- Connection of actuators in 1-conductor technology
- Nominal current per output: 500 mA
- Total current of the terminal: 8 A
- Short-circuit and overload-protected outputs

## Commercial Data

Item number	2862822
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNI132
Product Key	DRI132
Catalog Page	Page 129 (C-6-2019)
GTIN	4017918907617
Weight per Piece (including packing)	210.8 g
Weight per Piece (excluding packing)	202.91 g
Customs tariff number	85369000
Country of origin	DE

## Technical Data

### Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 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
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#### Utilization restriction

CCCex 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)	02
Length code (dec)	02
Process data channel	32 Bit
Input address area	0 Byte
Output address area	4 Byte
Register length	32 Bit
Required parameter data	6 Byte

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Required configuration data	4 Byte
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## Output data

### Digital

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	1-conductor
Number of outputs	32
Protective circuit	Overload protection, short-circuit protection of outputs; Zener diode in output chip
Output voltage	24 V ( $U_S - 1$ V)
Maximum inrush current	max. 1.5 A (at nominal lamp load for 20 ms)
Maximum output current per channel	500 mA
Maximum output current per module	8 A
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 VA (1.2 H, 48 $\Omega$ )
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (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
Scope of delivery	including Inline connectors and marking fields
No. of channels	32
Operating mode	Process data operation with 2 words Process data operation with 2 words
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	32
Maximum power dissipation for nominal condition	192 W

### Potentials

Power consumption	max. 3 W (Module, complete, HW 00) max. 2.3 W (Module, complete, HW 01 or later)
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## Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 140 mA (HW 00)
	max. 30 mA (from HW 01)
Power consumption	max. 1.05 W (HW 00)
	max. 0.225 W (from HW 01)

## 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 solid	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>
Stripping length	8 mm

## 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)
	80 kPa ... 106 kPa (up to 3000 m above sea level, in ATEX Zone 2)
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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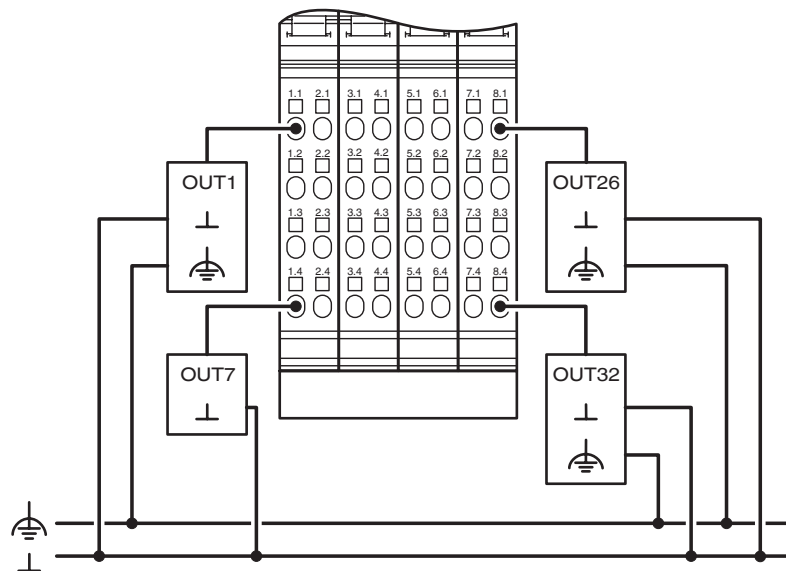
# Digital module - IB IL 24 DO 32/HD-PAC

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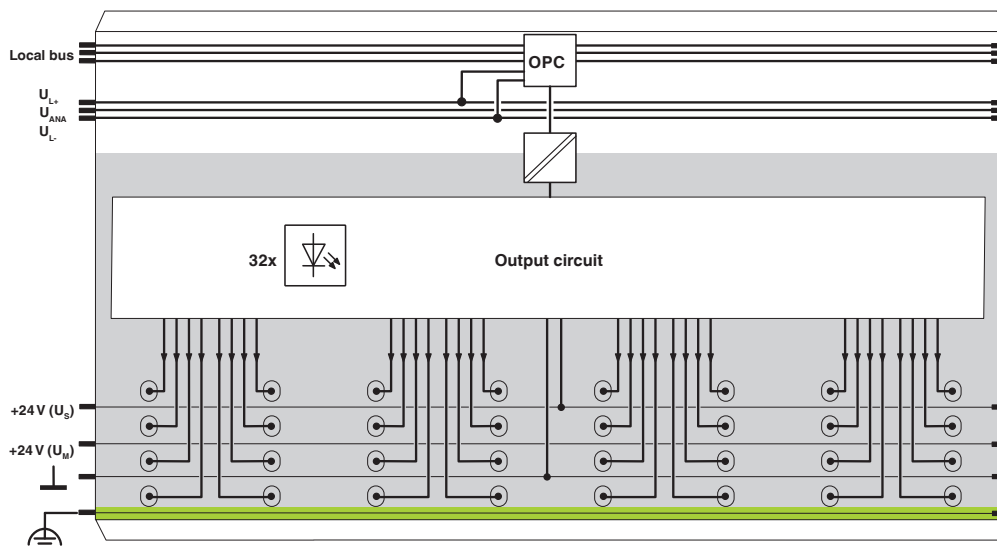
<https://www.phoenixcontact.com/nz/products/2862822>

## Drawings

Connection diagram



Block diagram



Internal wiring of the terminal points

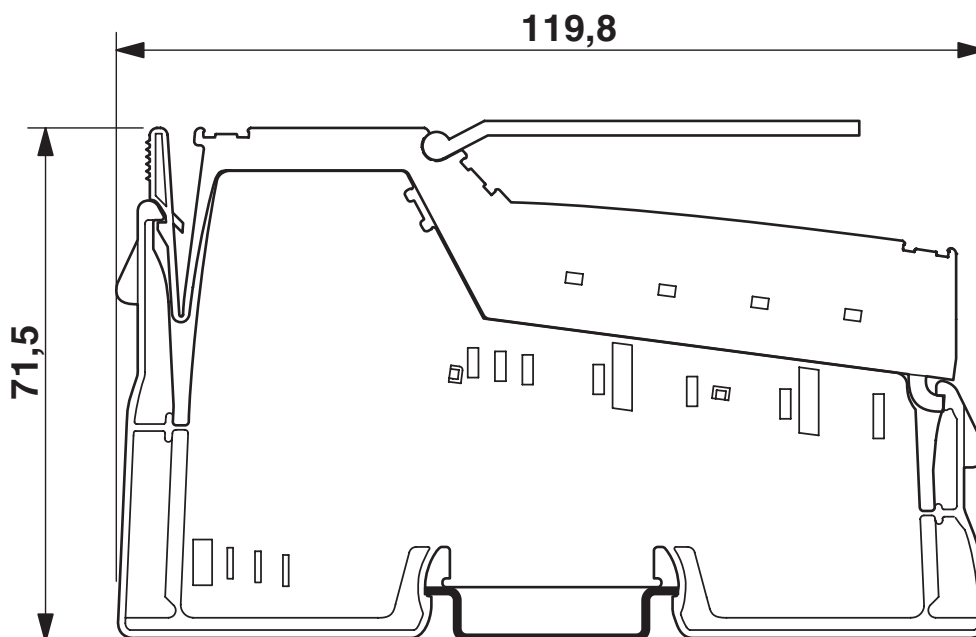
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Dimensional drawing



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## Approvals



**cUL Recognized**  
Approval ID: FILE E 140324



**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: 21595/C0 BV

**BSH**

Approval ID: Anwenderhinweis

**ABS**

Approval ID: 22-2226444-PDA



**ATEX**  
Approval ID: PxCIF16ATEX2862822X



**cUL Listed**  
Approval ID: FILE E 199827



**UL Listed**  
Approval ID: FILE E 199827

**cULus Recognized**

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## Classifications

### ECLASS

ECLASS-9.0	27242604
ECLASS-10.0.1	27242604
ECLASS-11.0	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

### Connector set

Connector set - IB IL DI/DO 8-PLSET - 2860950

<https://www.phoenixcontact.com/nz/products/2860950>

Connector set



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### Labeling field

Labeling field - IB IL FIELD 2 - 2727501

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

Labeling field, width: 12.2 mm



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## Labeling field

Labeling field - IB IL FIELD 8 - 2727515

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

Labeling field, width: 48.8 mm



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## Insert strip

Insert strip - ESL 62X10 - 0809492

<https://www.phoenixcontact.com/nz/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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## Insert strip

Insert strip - ESL 62X46 - 0809502

<https://www.phoenixcontact.com/nz/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



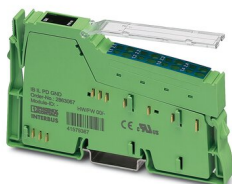
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## Potential distributors

Potential distributors - IB IL PD GND-PAC - 2862990

<https://www.phoenixcontact.com/nz/products/2862990>

Inline terminal for power distribution (GND), complete with accessories, (connector and labeling field) connections for GND



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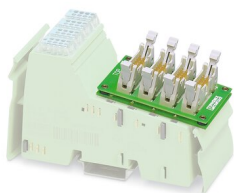


## Front adapters

Front adapters - FLKM 14-PA-INLINE/32 - 2302777

<https://www.phoenixcontact.com/nz/products/2302777>

VARIOFACE front adapter for Inline modules, for transferring 32 (4 x 8) digital signals.



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