

Digital module - IB IL 24 DI 32/HD-PAC



2862835

<https://www.phoenixcontact.com/nz/products/2862835>

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Inline, Digital input terminal, Digital inputs: 32, 24 V DC, 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 acquire digital signals.

Your advantages

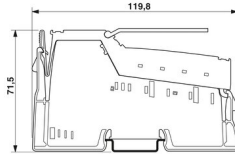
- 32 digital inputs
- Connection of sensors in 1-conductor technology

Commercial Data

Item number	2862835
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNI131
Product Key	DRI131
Catalog Page	Page 123 (C-6-2019)
GTIN	4017918907594
Weight per Piece (including packing)	209 g
Weight per Piece (excluding packing)	185 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.)	190
ID code (hex)	BE
Length code (hex)	02
Length code (dec)	02
Process data channel	32 Bit
Input address area	4 Byte
Output address area	0 Byte
Register length	32 Bit
Required parameter data	1 Byte

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Required configuration data	4 Byte
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Input data

Digital

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	32
Connection method	Spring-cage connection
Connection technology	1-conductor
Input voltage	24 V DC
Input voltage range "0" signal	-3 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	typ. 2.8 mA
Typical input current per channel	2.8 mA
Typical response time	2 ms
Delay at signal change from 0 to 1	2 ms
Delay at signal change from 1 to 0	4 ms
Protective circuit	Short-circuit and overload protection

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

Electrical properties

No. of channels	32
Maximum power dissipation for nominal condition	24.12 W

Potentials

Power consumption	max. 3.3 W (Module, complete, HW 00)
	max. 2.9 W (Module, complete, HW 01 or later)

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 90 mA (HW 00)
	max. 30 mA (from HW 01)
Power consumption	max. 0.675 W (HW 00)
	max. 0.225 W (from HW 01)

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC (via voltage jumper)
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Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 50 mA

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 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
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

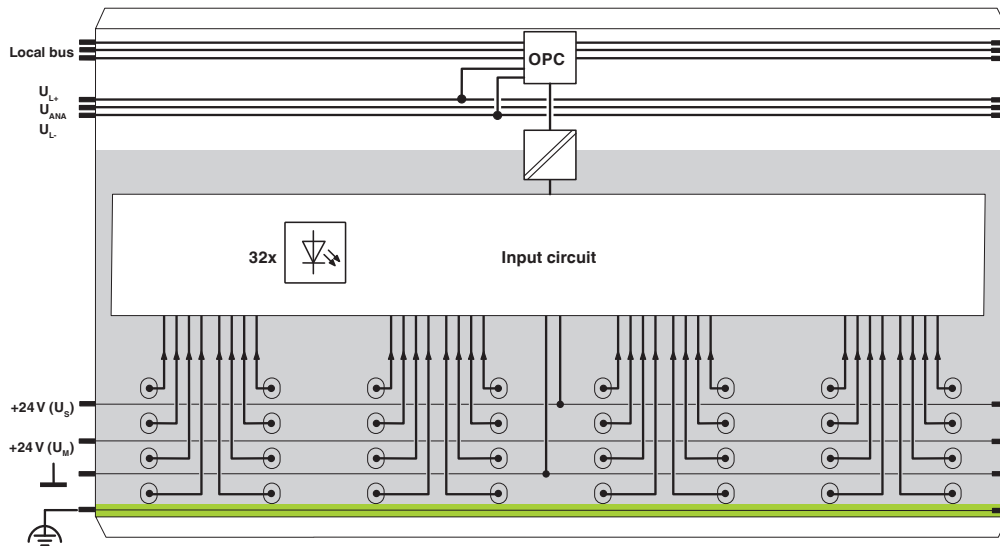
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

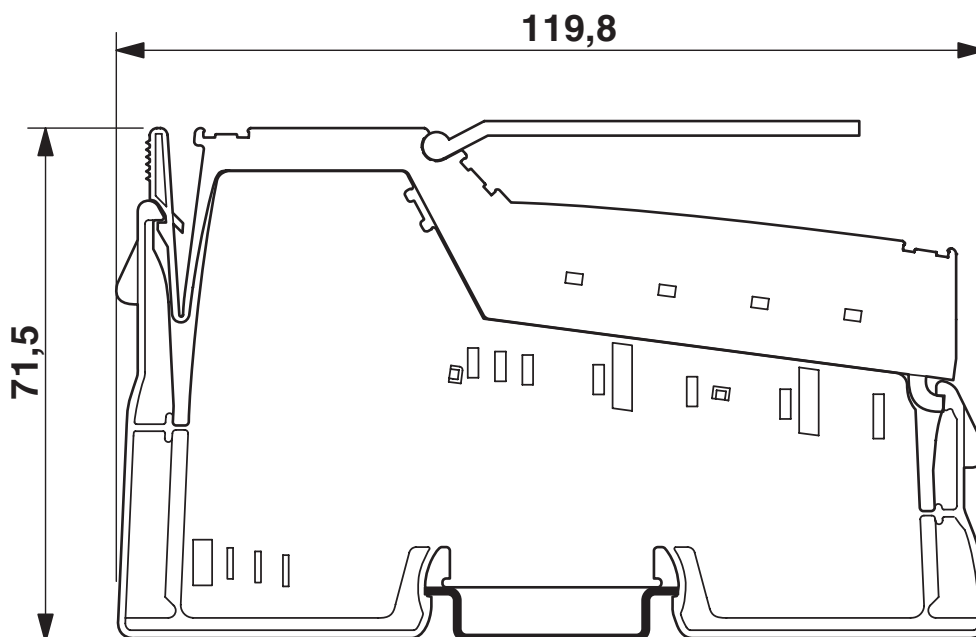
Mounting type	DIN rail mounting
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Drawings

Block diagram



Dimensional drawing



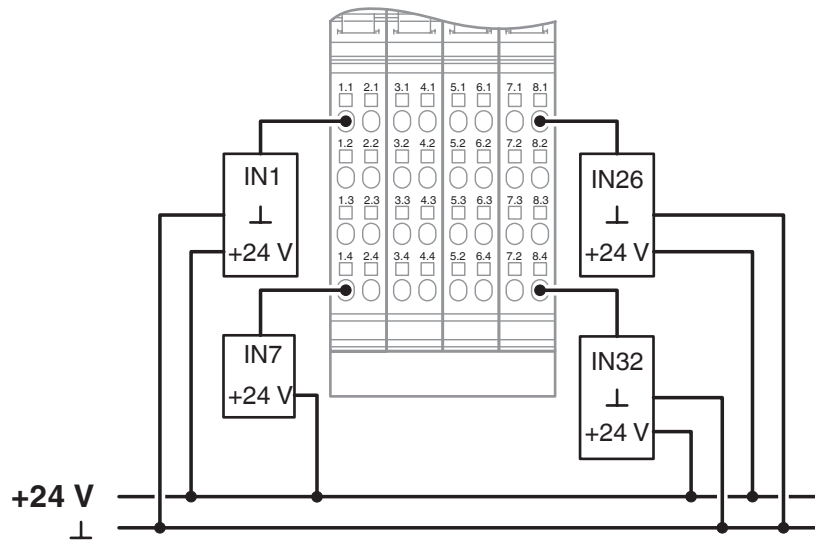
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Connection diagram



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: PxCIF07ATEX2862835X



cUL Listed
Approval ID: FILE E 199827



UL Listed
Approval ID: FILE E 199827

cULus Recognized

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cULus Listed

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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

Potential distributors

Potential distributors - IB IL PD 24V-PAC - 2862987

<https://www.phoenixcontact.com/nz/products/2862987>



Inline terminal for power distribution (24 V), complete with accessories, (connector and labeling field) 24 V supply voltage is fed out from the segment circuit (US)

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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Connector set

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

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

Connector set



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

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Labeling field, width: 48.8 mm



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

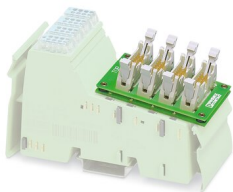


Front adapters

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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