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IB IL 24 DI 8-PAC - Digital module

2861247

https://www.phoenixcontact.com/gb/products/2861247

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Inline, Digital input terminal, Digital inputs: 8, 24 V DC, connection technology: 4-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

- 8 digital inputs
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Maximum permissible load current per sensor: 250 mA
- Maximum permissible load current from the terminal: 2 A

Commercial Data

Item number	2861247
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI131
Product Key	DRI131
Catalog Page	Page 123 (C-6-2019)
GTIN	4017918894184
Weight per Piece (including packing)	202.4 g
Weight per Piece (excluding packing)	118 g
Customs tariff number	85389099
Country of origin	DE

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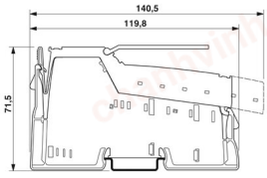
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Technical Data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.

Material specifications

Color	green

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)	81
Length code (dec)	129
Process data channel	8 bit
Input address area	1 Byte
Output address area	0 Byte
Register length	8 bit
Required parameter data	1 Byte
Required configuration data	4 Byte

Input data

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Digital

Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Number of inputs	8
Cable length	max. 30 m (to the sensor)
Connection method	Spring-cage connection
Connection technology	4-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}	min. 5 mA (at nominal voltage)
Typical response time	< 1 ms
Protective circuit	Short-circuit and overload protection

Product properties

Type	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
No. of channels	8
Operating mode	Process data mode with one byte

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	8
Maximum power dissipation for nominal condition	24.12 W

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 50 mA
Power consumption	max. 0.375 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. 2 A
	0 A (without sensors)

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 mm² ... 1.5 mm²
Conductor cross section flexible	0.08 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross section, flexible	0.08 mm² ... 1.5 mm²
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)

Mounting

Mounting type	DIN rail mounting

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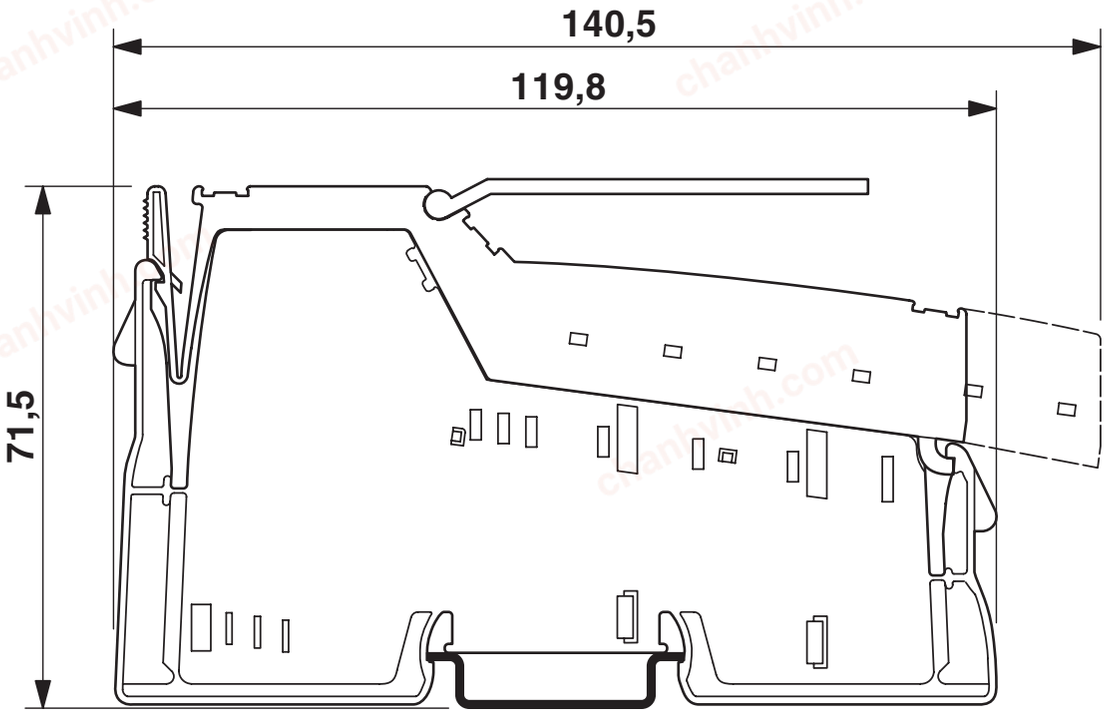
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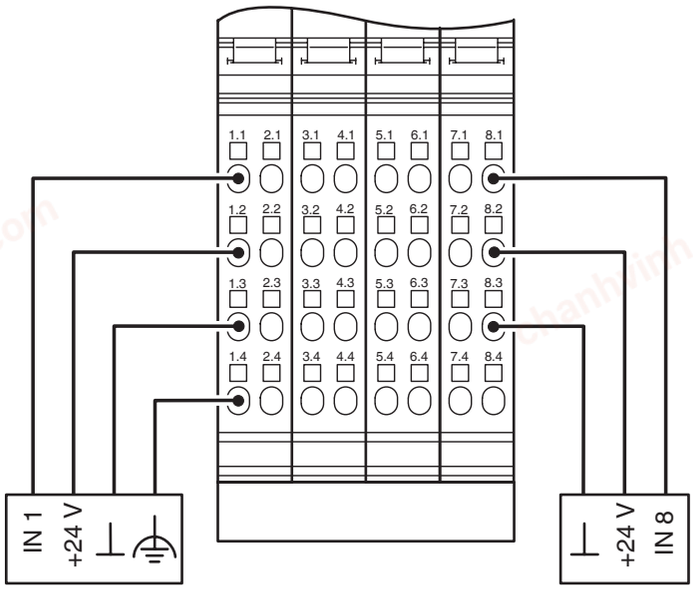
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Drawings

Dimensional drawing



Connection diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2861247

UL Recognized
Approval ID: FILE E 140324

DNV GL
Approval ID: TAA00000BN

LR
Approval ID: LR22191720TA

BV
Approval ID: 21595/C0 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

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 DI/DO 8-PLSET - Connector set

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Connector set

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

https://www.phoenixcontact.com/gb/products/2726337

Connector, for digital 1, 2 or 8-channel Inline terminals



IB IL FIELD 2 - Labeling field

2727501

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Labeling field, width: 12.2 mm



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IB IL FIELD 8 - Labeling field

2727515

https://www.phoenixcontact.com/gb/products/2727515

Labeling field, width: 48.8 mm



ESL 62X10 - Insert strip

0809492

https://www.phoenixcontact.com/gb/products/0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, CMS-P1-PLOTTER, 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/gb/products/0809502



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, CMS-P1-PLOTTER, mounting type: insert, lettering field size: 62 x 46 mm, Number of individual labels: 15

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