

# IB IL 230 DI 1-PAC - Inline terminal



2861548

<https://www.phoenixcontact.com/us/products/2861548>

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Inline, Digital input terminal, Digital inputs: 1, 230 V AC, connection technology: 3-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 acquire digital signals in the AC voltage range.

## Your advantages

- Maximum permissible load current: 500 mA
- Connections for one digital sensor

## Commercial data

Item number	2861548
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI131
Catalog page	Page 127 (C-6-2019)
GTIN	4017918907433
Weight per piece (including packing)	75.3 g
Weight per piece (excluding packing)	39 g
Customs tariff number	85389099
Country of origin	DE

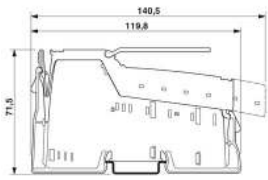
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## Technical data

### Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

### Interfaces

#### Inline local bus

No. of channels	2
Connection method	Inline data jumper
Transmission speed	500 kbps

### System properties

#### Module

ID code (dec.)	190
ID code (hex)	BE
Length code (hex)	C2
Length code (dec)	194
Process data channel	2 bit
Input address area	2 bit
Output address area	0 Byte
Register length	2 bit
Required parameter data	1 Byte
Required configuration data	4 Byte

### Input data

#### Digital

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	1
Connection method	Spring-cage connection
Connection technology	3-conductor
Input voltage	230 V AC
Input voltage range "0" signal	0 V AC ... 40 V AC

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Input voltage range "1" signal	164 V AC ... 253 V AC
Nominal input voltage $U_{IN}$	230 V AC
Nominal input current at $U_{IN}$	6.11 mA (at nominal voltage)

## Product properties

Type	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connector and labeling field
No. of channels	1

## Electrical properties

No. of channels	1
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### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 30 mA

### Potentials

Supply voltage	230 V AC
Current draw	max. 0.25 A

### Potentials: I/O supply

Supply voltage	230 V AC (via voltage jumper)
Current draw	0.25 A

### Supply: Module electronics

Supply voltage	230 V AC
Supply voltage range	12 V AC ... 253 V AC

## 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

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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 160 kPa (up to 2000 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)	75 % ... 85 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.)
Permissible humidity (storage/transport)	75 % ... 85 % (slight temporary condensation may sometimes appear on the housing)

## Standards and regulations

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

Mounting type	DIN rail mounting
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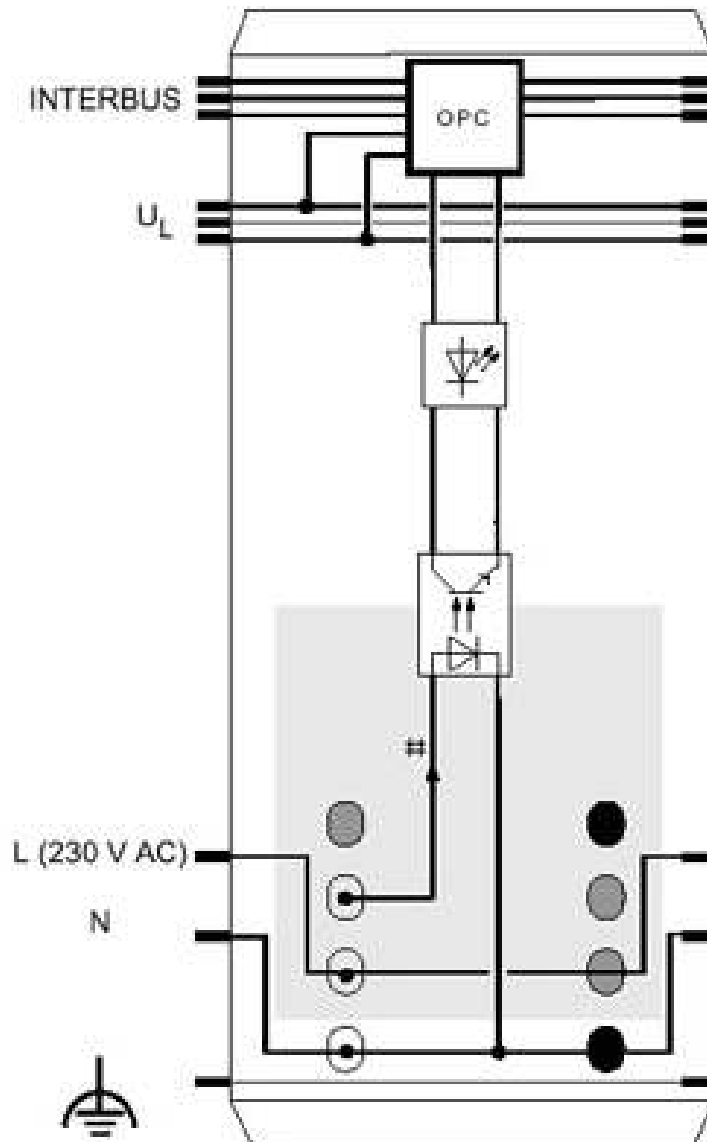
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## Drawings

Block diagram

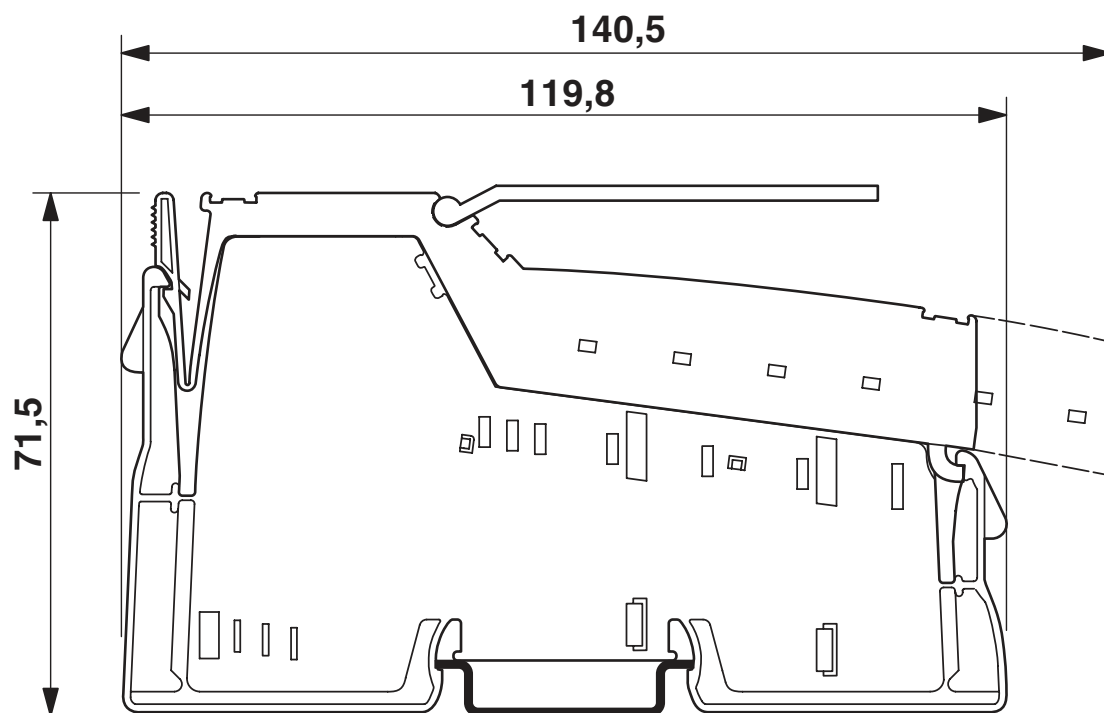


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Dimensional drawing



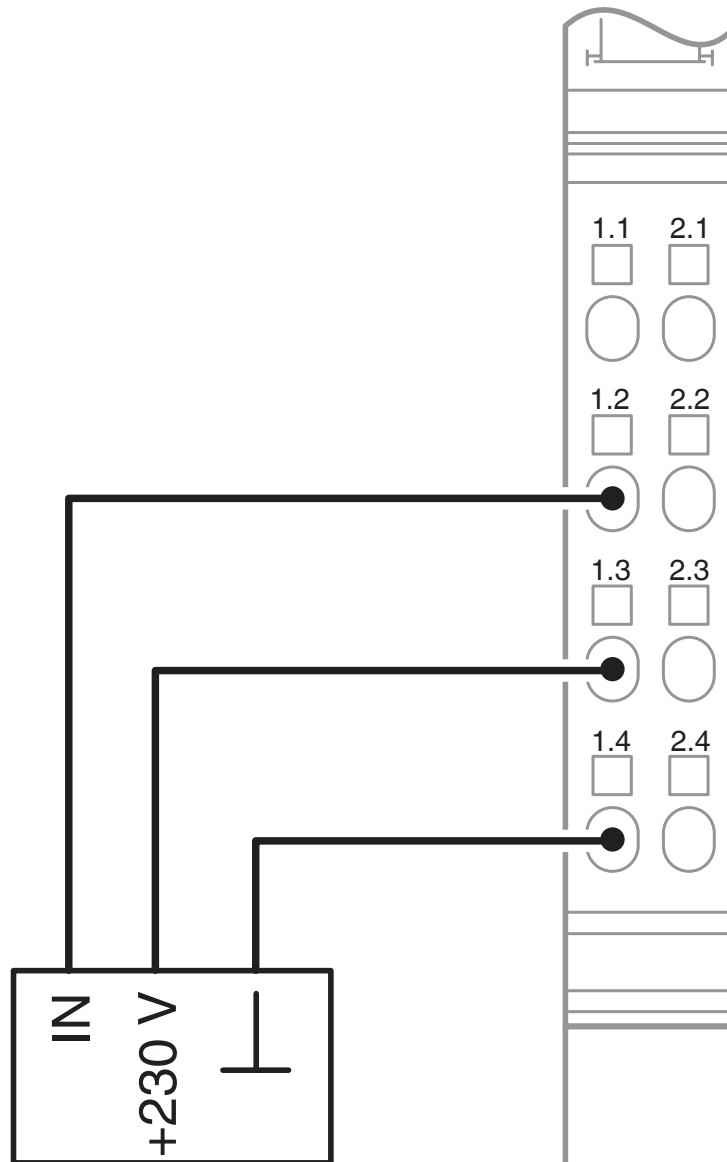
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Connection diagram



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## Classifications

### ECLASS

ECLASS-11.0

27242604

### ETIM

ETIM 8.0

EC001599

### 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 SCN-8-AC-ICP - Inline connector

2740261

<https://www.phoenixcontact.com/us/products/2740261>



Plug, colored identification, for digital 1, -2 or 8-channel Inline input terminal blocks with AC voltage

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### IB IL FIELD 2 - Labeling field

2727501

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

Labeling field, width: 12.2 mm



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## ESL 62X10 - Insert strip

0809492

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