

# IB IL 24 DI 32/HD - Inline terminal



2860785

<https://www.phoenixcontact.com/us/products/2860785>

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Inline digital input terminal, without accessories, 32 inputs, 24 V DC, 1-conductor connection technology

The figure shows the version IB IL 24 DI 32/HD-PAC

## Product description

The terminal is designed for use within an Inline station. It is used to acquire digital signals.

## Your advantages

- Connection of sensors in 1-conductor technology
- 32 digital inputs
- Diagnostic and status indicators

## Commercial data

Item number	2860785
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI131
GTIN	4017918907600
Weight per piece (including packing)	160.3 g
Weight per piece (excluding packing)	125.01 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Product properties

Type	modular
No. of channels	32
Operating mode	Process data operation with 2 words
Diagnostics messages	No None

### System properties

#### Programming data

Length code (hex)	02
ID code (dec.)	190
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	32 bit

#### Fieldbus data telegram

Required parameter data	1 Byte
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### Electrical properties

#### Potentials: Communications power ( $U_L$ )

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

#### 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

#### Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min

### Input data

#### Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1

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Number of inputs	32
Connection method	Spring-cage connection
Connection technology	1-conductor
Input voltage	24 V DC (via voltage jumper)
Input voltage range "0" signal	-3 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 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

## Connection data

### 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

## Interfaces

### Inline local bus

Connection method	Inline data jumper
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## Signaling

### Diagnostic messages

Diagnostics	No
Message	None

## Dimensions

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

## Material specifications

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Color	green
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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)	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 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)

## 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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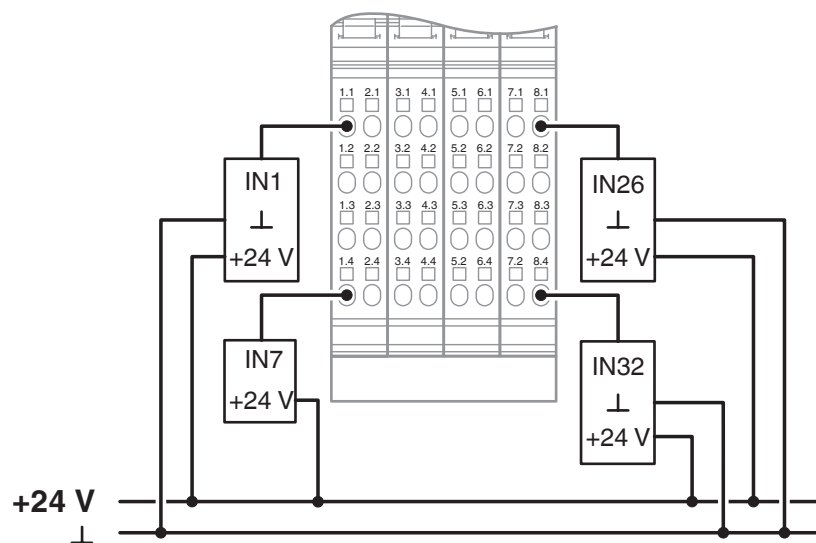
<https://www.phoenixcontact.com/us/products/2860785>

## Drawings

Dimensional drawing



Connection diagram

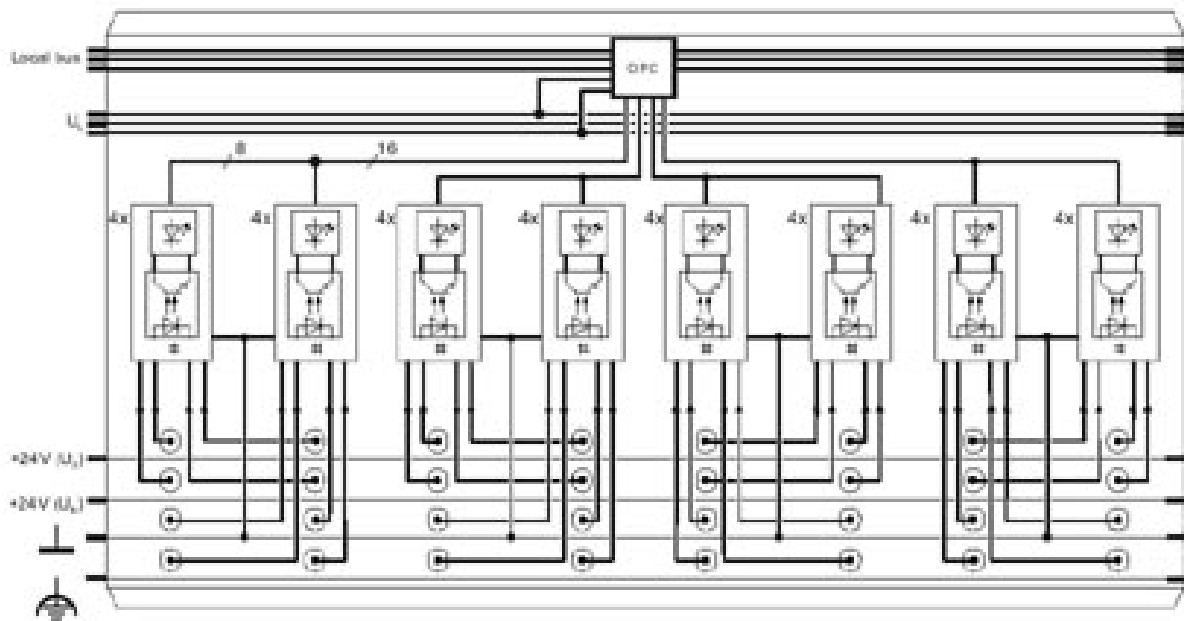


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Block diagram



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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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