

IB IL 24 DI 2-NPN - Inline terminal

2740112

<https://www.phoenixcontact.com/us/products/2740112>

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Inline digital input terminal, without accessories, 2 inputs with negative logic, 24 V DC, 2-, 3-, and 4-conductor connection technology

The figure shows product versions -PAC incl. plug and accessories.

Product description

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

Your advantages

- Connections for 2 digital sensors, npn-wired
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Maximum permissible load current per sensor: 250 mA
- Diagnostic and status indicators

Commercial data

Item number	2740112
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI131
GTIN	4017918570088
Weight per piece (including packing)	60.2 g
Weight per piece (excluding packing)	45.89 g
Customs tariff number	85389091
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
Note on dimensions	Housing dimensions

Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Programming data

Length code (hex)	C2
ID code (dec.)	190
Length code (dec)	194
Process data channel	2 bit
Input address area	2 bit
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	2 bit

Fieldbus data telegram

Required parameter data	1 Byte
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Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	2
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Input voltage	24 V DC (via voltage jumper)
Input voltage range "0" signal	-3 V DC ... 5 V DC

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Input voltage range "1" signal	15 V DC ... 30 V DC
Typical response time	< 1 ms
Protective circuit	Short-circuit and overload protection

Product properties

Product type	I/O component
Product family	Inline
Type	modular
No. of channels	2

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 35 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. 0.5 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

Connection data

Connection technology

Connection name	Inline connector
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Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	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

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

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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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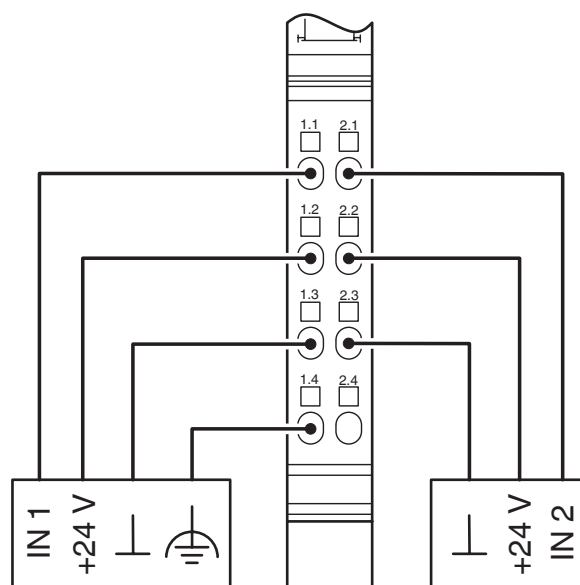
<https://www.phoenixcontact.com/us/products/2740112>

Drawings

Dimensional drawing



Connection diagram



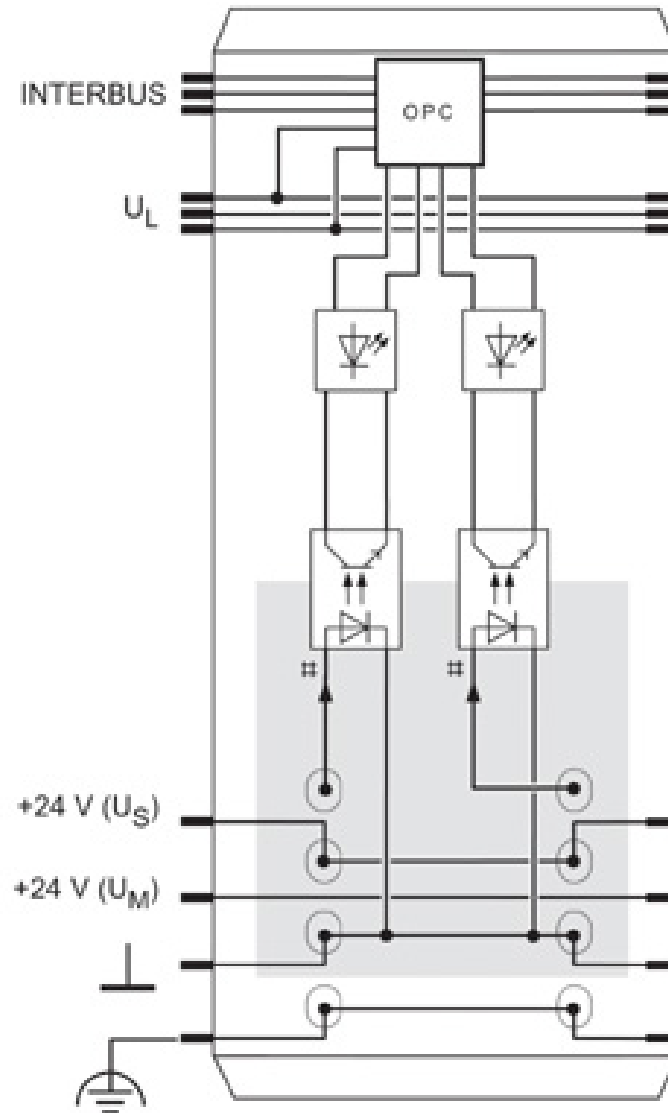
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Block diagram



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Environmental product compliance

EU REACH SVHC

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