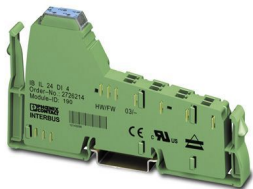


IB IL 24 DI 4-2MBD - Inline terminal

2855017

<https://www.phoenixcontact.com/us/products/2855017>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Inline digital input terminal, without accessories, 4 inputs, 24 V DC, 2 Mbaud transmission speed, 3-conductor connection technology

Product description

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

Your advantages

- Diagnostic and status indicators
- Maximum permissible load current from the terminal: 1 A
- Maximum permissible load current per sensor: 250 mA
- Connection of sensors in 2- and 3-conductor technology
- 4 digital inputs

Commercial data

Item number	2855017
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI131
GTIN	4046356347655
Weight per piece (including packing)	60.1 g
Weight per piece (excluding packing)	44 g
Country of origin	DE

2855017

<https://www.phoenixcontact.com/us/products/2855017>

Technical data

Product properties

Type	modular
No. of channels	4
Operating mode	Process data operation with 4 bits

System properties

Programming data

Length code (hex)	41
ID code (dec.)	190
Length code (dec)	65
Process data channel	4 bit
Input address area	4 bit
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	4 bit

Fieldbus data telegram

Required parameter data	1 Byte
-------------------------	--------

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 40 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. 1 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
Number of inputs	4

IB IL 24 DI 4-2MBD - Inline terminal



2855017

<https://www.phoenixcontact.com/us/products/2855017>

Connection method	Spring-cage connection
Connection technology	2-, 3-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
Typical response time	< 1 ms
Protective circuit	Short-circuit and overload protection

Connection data

Connection data of 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

Interfaces

Inline local bus

Connection method	Inline data jumper
-------------------	--------------------

Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Material specifications

Color	green
-------	-------

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)
------------------	---------------------------------------

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

IB IL 24 DI 4-2MBD - Inline terminal



2855017

<https://www.phoenixcontact.com/us/products/2855017>

Environmental product compliance

EU REACH SVHC

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

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com