

Digital module - IB IL 24 DI 32/HD-2MBD-PAC



2692885

<https://www.phoenixcontact.com/de/produkte/2692885>

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, Digital inputs: 32, 24 V DC, connection technology: 1-conductor, transmission speed in the local bus: 2 Mbps, 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

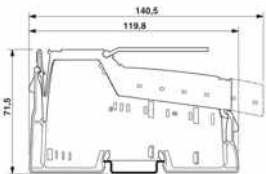
- 32 digital inputs
- Connection of sensors in 1-conductor technology

Commercial Data

Item number	2692885
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	O1 - Automatisierungssys.
Product Key	DRI131
Catalog Page	Page 271 (AX-2009)
GTIN	4046356437455
Weight per Piece (including packing)	203 g
Weight per Piece (excluding packing)	203 g
Customs tariff number	85389091
Country of origin	DE

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

EMC note	EMC: class A product, see manufacturer's declaration in the download area
----------	---

Material specifications

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

Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	2 Mbps

System properties

Module

ID code (dec.)	190
ID code (hex)	BE
Length code (hex)	02
Length code (dec)	02
Process data channel	32 Bit
Input address area	4 Byte
Output address area	0 Byte
Register length	32 Bit
Required parameter data	1 Byte
Required configuration data	4 Byte

Input data

Digital module - IB IL 24 DI 32/HD-2MBD-PAC



2692885

<https://www.phoenixcontact.com/de/produkte/2692885>

Digital

Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Number of inputs	32
Connection method	Spring-cage connection
Connection technology	1-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}	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

Product properties

Type	modular
Product type	I/O component
Scope of delivery	including Inline connectors and marking fields
No. of channels	32
Operating mode	Process data operation with 2 words

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	32
-----------------	----

Potentials

Power consumption	max. 3.3 W (Module, complete, HW 00)
	max. 2.9 W (Module, complete, HW 01 or later)

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 90 mA (HW 00)
	max. 30 mA (from HW 01)
Power consumption	max. 0.675 W (HW 00)
	max. 0.225 W (from HW 01)

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)

Digital module - IB IL 24 DI 32/HD-2MBD-PAC



2692885

<https://www.phoenixcontact.com/de/produkte/2692885>

Current draw	max. 50 mA
--------------	------------

Connection data

Connection technology

Connection name	Inline connector
-----------------	------------------

Conductor connection

Connection method	Spring-cage connection
Conductor cross section solid	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
Stripping length	8 mm

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
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

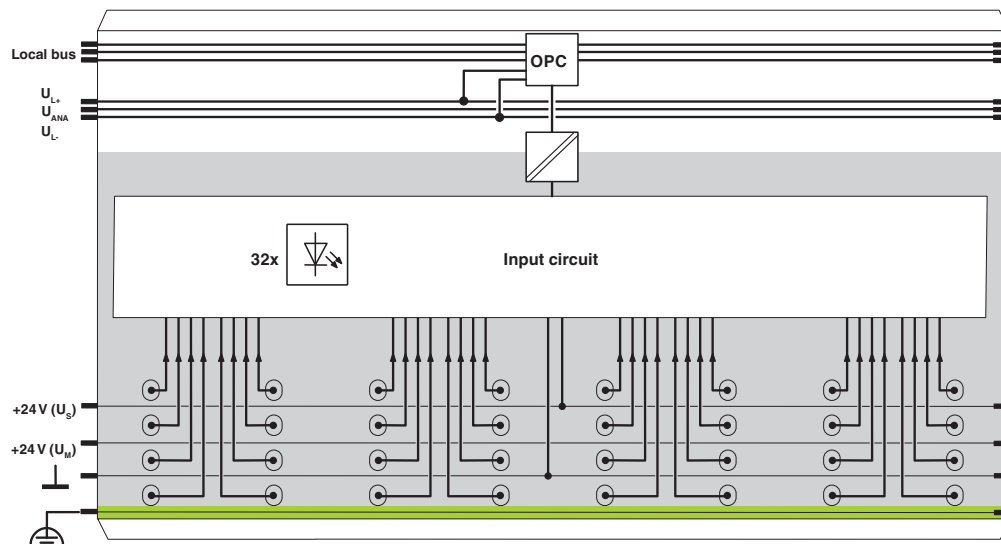
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
------------------	---------------------------------------

Mounting

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

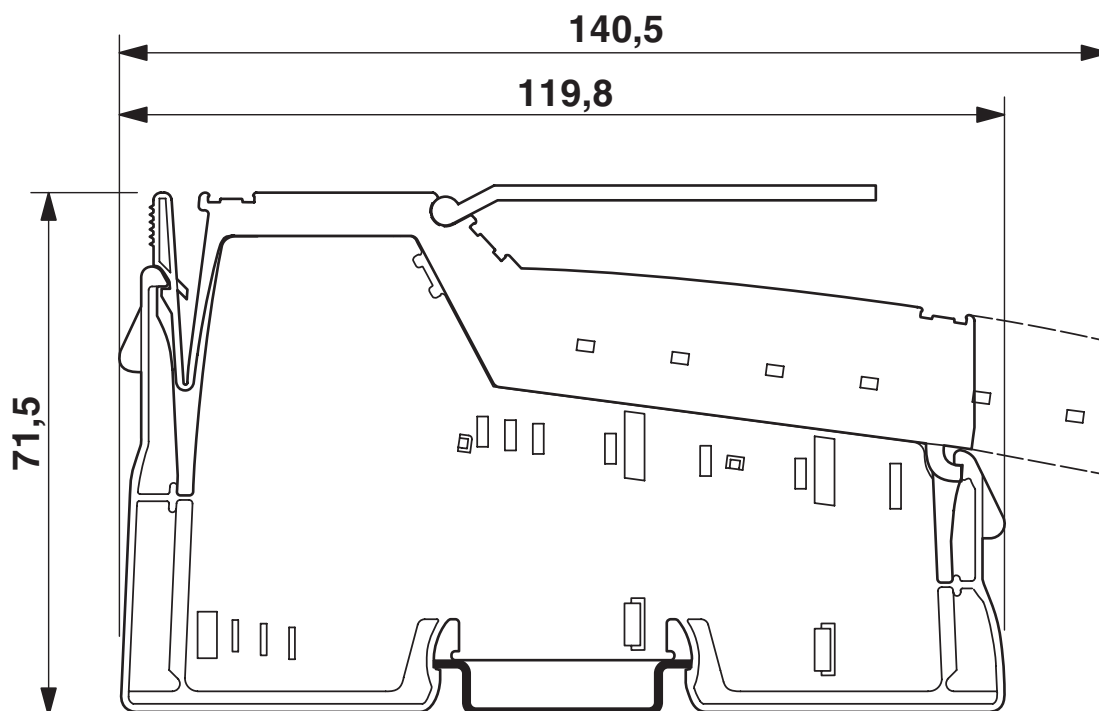
Drawings

Block diagram



Internal wiring of the terminal points

Dimensional drawing



Dimensions (in mm)

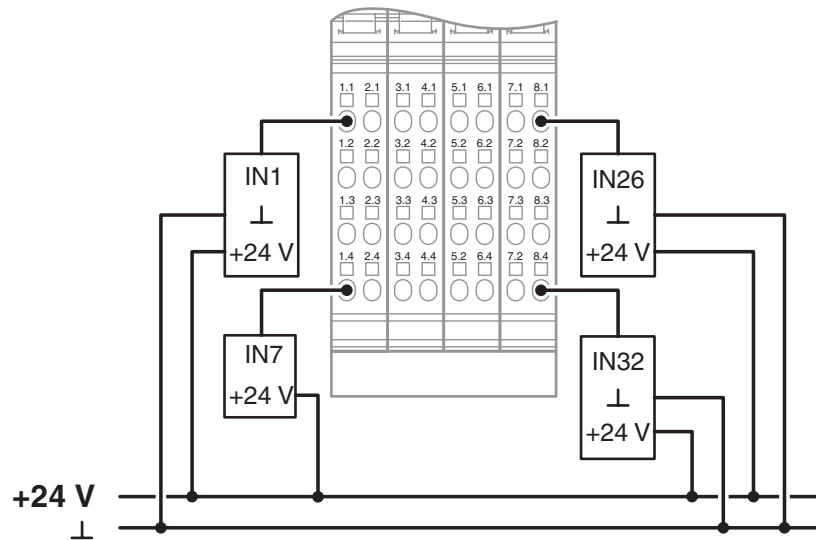
Digital module - IB IL 24 DI 32/HD-2MBD-PAC

2692885

<https://www.phoenixcontact.com/de/produkte/2692885>



Connection diagram



Connection example

Approvals



cUL Recognized
Approval ID: FILE E 140324



UL Recognized
Approval ID: FILE E 140324



cUL Listed
Approval ID: FILE E 199827



UL Listed
Approval ID: FILE E 199827

cULus Recognized

cULus Listed

Classifications

ECLASS

ECLASS-9.0	27242604
ECLASS-10.0.1	27242604
ECLASS-11.0	27242604

ETIM

ETIM 8.0	EC001599
----------	----------

UNSPSC

UNSPSC 21.0	32151600
-------------	----------

Digital module - IB IL 24 DI 32/HD-2MBD-PAC

2692885

<https://www.phoenixcontact.com/de/produkte/2692885>



Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT Deutschland GmbH

Flachsmarktstraße 8

D-32825 Blomberg

+49 52 35/3-1 20 00

info@phoenixcontact.de