

IB IL 24 DO 8-PAC - Digital module



2861289

<https://www.phoenixcontact.com/us/products/2861289>

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Inline, Digital output terminal, Digital outputs: 8, 24 V DC, connection technology: 4-conductor, transmission speed in the local bus: 500 kbps, 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 output digital signals.

Your advantages

- 8 digital outputs
- Connection of actuators in 2-, 3-, and 4-conductor technology
- Nominal current per output: 500 mA
- Total current of the terminal: 4 A
- Short-circuit and overload-protected outputs
- Diagnostic and status indicators

Commercial Data

Item number	2861289
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DR01
Product Key	DRI132
Catalog Page	Page 129 (C-6-2019)
GTIN	4017918894221
Weight per Piece (including packing)	207.5 g
Weight per Piece (excluding packing)	130 g
Customs tariff number	85389099
Country of origin	DE

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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

CCEx note	Use in potentially explosive areas is not permitted in China.
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Material specifications

Color	green
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Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module

ID code (dec.)	189
ID code (hex)	BD
Length code (hex)	81
Length code (dec)	129
Process data channel	8 bit
Input address area	0 Byte
Output address area	1 Byte
Register length	8 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

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Digital

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	4-conductor
Number of outputs	8
Protective circuit	Overload protection, short-circuit protection of outputs
Output voltage	24 V ($U_S - 1$ V)
Maximum output current per channel	500 mA
Maximum output current per module	4 A
Nominal output voltage	24 V DC (voltage difference at $I_{nom} \leq 1$ V)
Nominal load, inductive	12 W
Nominal load, lamp	12 W
Nominal load, ohmic	12 VA
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay

Product properties

Type	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
No. of channels	8
Diagnostics messages	Short-circuit or overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module

Electrical properties

No. of channels	8
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 60 mA
Power consumption	0.45 W

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. 4 A

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

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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

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 % (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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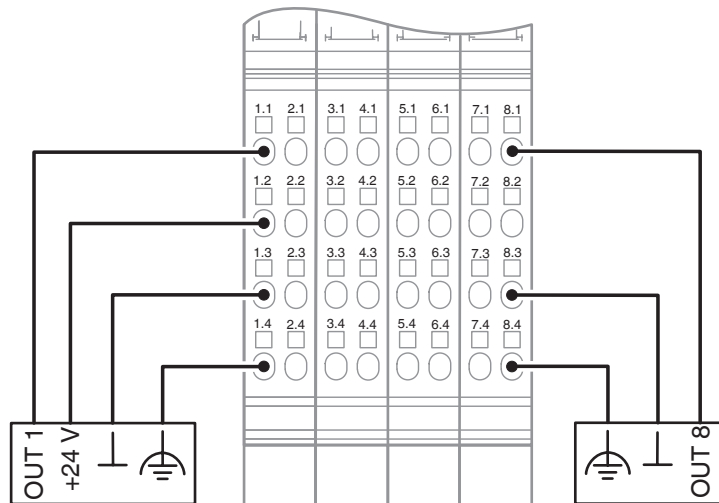


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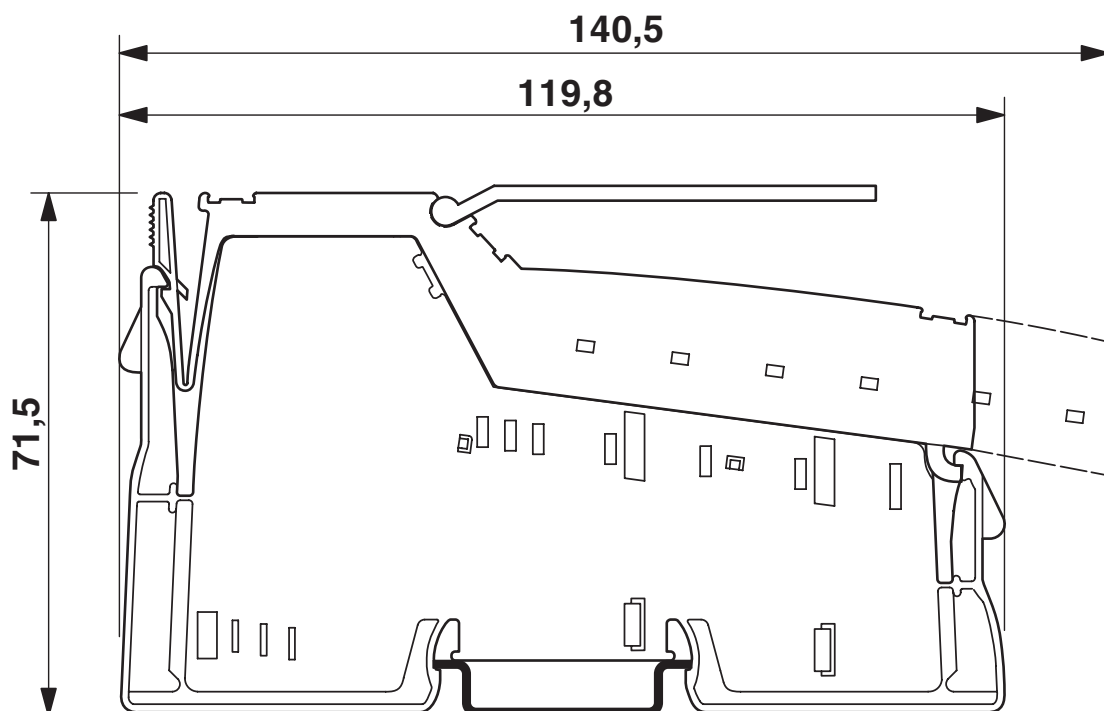
<https://www.phoenixcontact.com/us/products/2861289>

Drawings

Connection diagram



Dimensional drawing



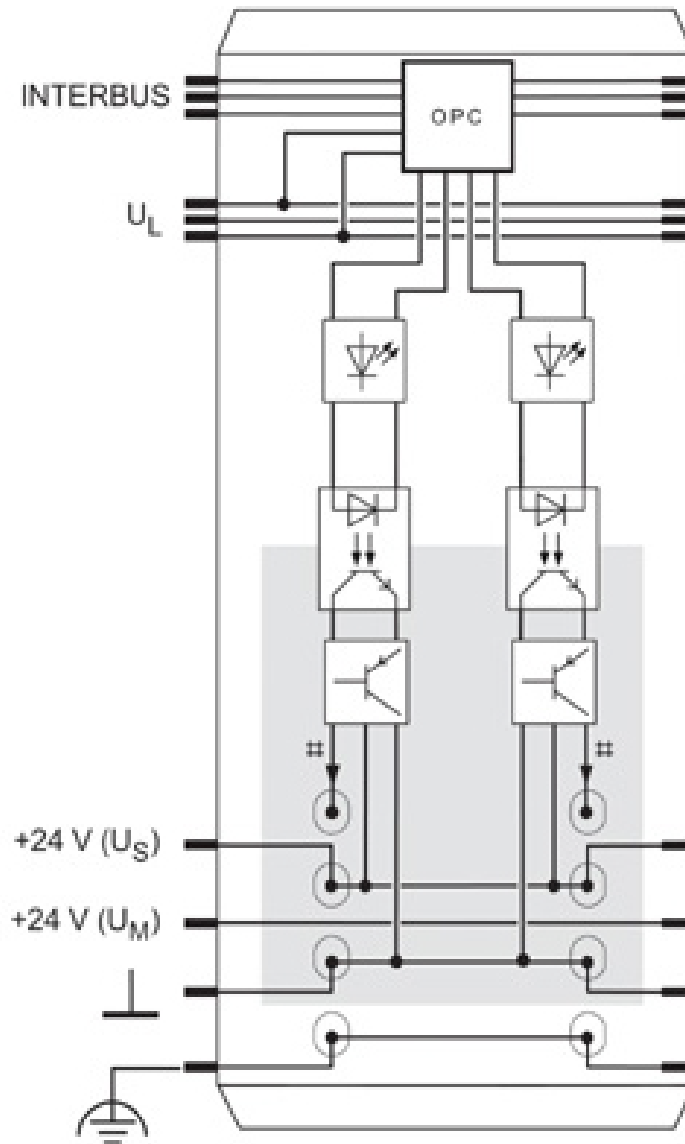
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Block diagram



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Approvals

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UL Recognized

Approval ID: FILE E 140324



EAC

Approval ID: TR TS_D_01921-19



DNV GL

Approval ID: TAA00000BN



LR

Approval ID: LR22191720TA



BV

Approval ID: 21595/C0 BV



RINA

Approval ID: ELE121121XG



cUL Listed

Approval ID: FILE E 199827



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Classifications

ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604

ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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 DI/DO 8-PLSET - Connector set

2860950

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Connector set



IB IL SCN-8-CP - Inline connector

2727608

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Inline connector, colored



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IB IL SCN-8 - Inline connector

2726337

<https://www.phoenixcontact.com/us/products/2726337>

Connector, for digital 1, 2 or 8-channel Inline terminals



IB IL FIELD 2 - Labeling field

2727501

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

Labeling field, width: 12.2 mm



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IB IL FIELD 8 - Labeling field

2727515

<https://www.phoenixcontact.com/us/products/2727515>

Labeling field, width: 48.8 mm



ESL 62X10 - Insert strip

0809492

<https://www.phoenixcontact.com/us/products/0809492>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems:
Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of
individual labels: 72



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ESL 62X46 - Insert strip

0809502

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Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems:
Laser printer, mounting type: insert, lettering field size: 62 x 46 mm, Number of
individual labels: 15



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