

Inline terminal - IB IL 24 DO16-2MBD-PAC/SN



2878324

<https://www.phoenixcontact.com/us/products/2878324>

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Inline digital output terminal complete with accessories (connector and labeling field), 16 outputs, 24 V DC, transmission speed 2 Mbaud, 3-conductor connection method, standard numbering

Product Description

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

Your advantages

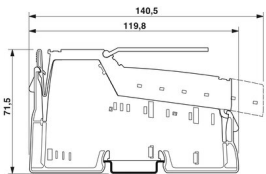
- 16 digital outputs
- Diagnostic and status indicators
- Total current of the terminal: 8 A
- Short-circuit and overload-protected outputs
- Connection of actuators in 2- and 3-conductor technology
- Nominal current per output: 500 mA

Commercial Data

Item number	2878324
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C21
Product Key	DRI132
GTIN	4017918980894
Weight per Piece (including packing)	238.6 g
Weight per Piece (excluding packing)	130 g
Customs tariff number	85389091
Country of origin	DE

Technical Data

Dimensions

Dimensional drawing	
	
Width	48.8 mm
Height	140.5 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

Interfaces

Inline local bus	
Connection method	Inline data jumper
Transmission speed	2 Mbps

System properties

Module	
ID code (dec.)	189
ID code (hex)	BD
Length code (hex)	01
Length code (dec)	01
Process data channel	16 Bit
Input address area	0 Byte
Output address area	2 Byte
Register length	16 Bit

Output data

Digital	
Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	16

Protective circuit	Overload protection, short-circuit protection of outputs
Output voltage	$U_S - 1 \text{ V}$
Output current	max. 500 mA (per channel)
	max. 8 A (Device)
Nominal output voltage	24 V DC (voltage difference at $I_{nom} \leq 1 \text{ V}$)
Nominal load, inductive	12 W (1.2 H, 48 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 VA (48 Ω)

Product properties

Type	modular
	Inline
Product type	I/O component
Scope of delivery	including Inline connectors and marking fields
No. of channels	16
Operating mode	Process data mode with one word

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	16
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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

Connection data

Connection technology

Connection name	Inline connector
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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
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Conductor cross section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross section, flexible	0.08 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

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

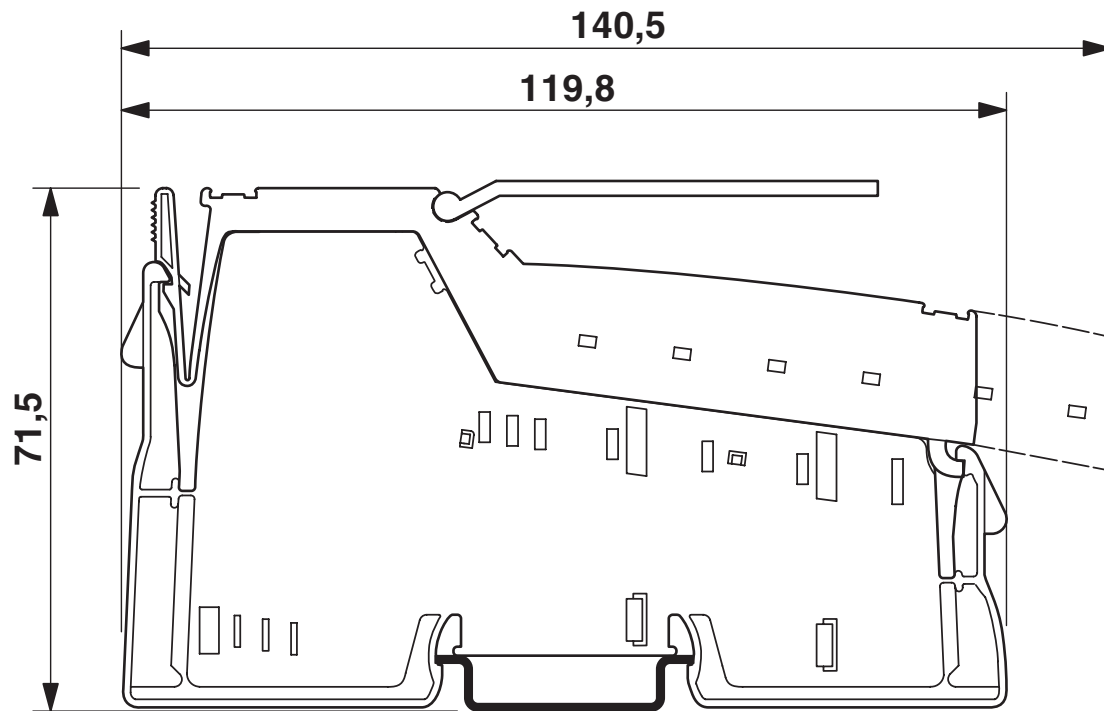
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
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Drawings

Dimensional drawing



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Classifications

ECLASS

ECLASS-9.0	27242604
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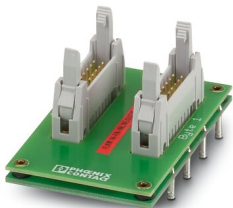
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Accessories

Front adapters

Front adapters - FLKM 14-PA-INLINE/OUT16 - 2302764

<https://www.phoenixcontact.com/us/products/2302764>



VARIOFACE front adapter for Inline modules, for transferring 16 (2 x 8) digital output signals.

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