

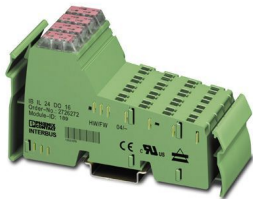
# IB IL 24 DO16-2MBD - Inline terminal



2855318

<https://www.phoenixcontact.com/us/products/2855318>

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Inline digital output terminal, without accessories, 16 outputs, 24 V DC, 500 mA, 2 Mbaud transmission speed, 3-conductor connection technology

## Product description

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

## Your advantages

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

## Commercial data

Item number	2855318
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI132
GTIN	4017918876906
Weight per piece (including packing)	144.7 g
Weight per piece (excluding packing)	117.71 g
Customs tariff number	85389091
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

### Material specifications

Color	green
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### 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	2-, 3-conductor
Number of outputs	16
Protective circuit	Overload protection, short-circuit protection of outputs
Output voltage	24 V DC (via voltage jumper)

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Maximum output current per channel	500 mA
Maximum output current per module	1 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

Product type	I/O component
Product family	Inline
Type	modular
No. of channels	16
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

### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 105 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

### 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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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
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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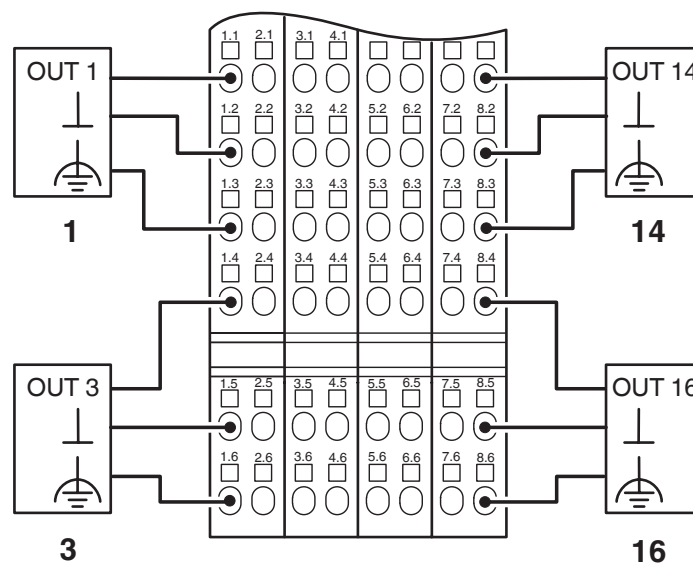
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## Drawings

Dimensional drawing



Connection diagram



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## Environmental product compliance

EU REACH SVHC

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