

# I/O module - ILB PN 24 DI16 DIO16-2TX - 2878146

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Inline Block I/O digital input/output module, PROFINET, 16/32 inputs, 24 V DC, 16 outputs, 24 V DC, 500 mA, 2, 3-conductor connection method




## Why buy this product

- 16/32 inputs, 24 V DC
- 16 outputs, 24 V DC, 500 mA
- 2 RJ45 sockets angled 45°



## Key commercial data

Packing unit	1 pc
GTIN	 4 046356 048484
Weight per Piece (excluding packing)	505.26 g
Custom tariff number	85389091
Country of origin	Germany

## Technical data

### Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	156 mm
Height	141.1 mm
Depth	57 mm
Note on dimensions	Specifications with male connectors

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	max. 85 % ((non-condensing))
Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above mean sea level)

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## Technical data

### Ambient conditions

Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above mean sea level)
Degree of protection	IP20

### Interfaces

Fieldbus system	PROFINET
Name	Ethernet
Connection method	RJ45 socket
Transmission speed	10/100 MBit/s (with autonegotiation)
Transmission physics	Copper

### PROFINET IO

Device function	PROFINET device
Specification	Version 1.1
Update rate	min. 1 ms

### Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	2, 3-wire
Number of inputs	32 (16 fixed and 16 freely selectable)
Typical response time	approx. 500 µs
Protective circuit	Short-circuit protection, overload protection of the sensor supply

### Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
	2-wire
Number of outputs	16 (freely adjustable)
Protective circuit	Short-circuit and overload protection
Maximum output current per channel	500 mA

### Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Supply current	60 mA
Current consumption	60 mA

### General

Weight	500 g
Note on weight specifications	with male connectors
Mounting type	DIN rail
Conformance with EMC directives	EN 55011:1998+A1:1999 Class A
Noise emission	Industrial environment
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g

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## Technical data

### General

	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g
Diagnostics messages	Short-circuit / overload of the digital outputs Message in the diagnostics register
	Short-circuit, sensor supply Message in the diagnostics register
	Undervoltage Power supply for sensors Message in the diagnostics register

## Classifications

### eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604

### ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

## Approvals

### Approvals

#### Approvals

UL Recognized / cUL Recognized / cULus Recognized

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

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## Approvals

Approvals submitted

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### Approval details

UL Recognized

cUL Recognized

cULus Recognized

## Accessories

### Accessories

#### Connector set

RJ45 connector - FL PLUG RJ45 GR/2 - 2744856



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, gray for straight cables, for assembly on site. For connections that are not crossed, it is recommended that you use the connector set with gray bend protection sleeve.

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RJ45 connector - FL PLUG RJ45 GN/2 - 2744571



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.

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### End block

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



### Terminal marking

Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, Unlabeled, Can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm



Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618

Flat zack marker sheet, Sheet, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm



## Drawings

Connection diagram



Dimensioned drawing

