

## I/O module - ILB ETH 24 DI16 DIO16-2TX - 2832962

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Inline, Block IO, Ethernet, RJ45 jack, Digital inputs: 32, 24 V DC, connection method: 3-wire, Digital outputs: 16, 24 V DC, 500 mA, connection method: 2-wire, degree of protection: IP20, including Inline connector

### Your advantages

- HTTP (web server)
- SNMP
- DDI
- BootP
- Modbus/TCP



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 012324
GTIN	4046356012324
Weight per Piece (excluding packing)	562.500 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 mm

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## Technical data

### Dimensions

Depth	57 mm
Note on dimensions	Specifications with 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 sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Degree of protection	IP20

### General

Mounting type	DIN rail
Net weight	500 g
Note on weight specifications	with connectors
Diagnostics messages	Short-circuit or 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
Mounting type	NS 35/7,5

### Interfaces

Designation	Ethernet
No. of channels	2
Connection method	RJ45 jack
Transmission speed	10/100 Mbps (with auto negotiation)
Transmission physics	Copper

### Digital inputs

Input name	Digital inputs
Description of the input	16 fixed and 16 freely selectable
Connection method	Spring-cage connection
Connection technology	3-wire
Number of inputs	32
Typical response time	approx. 500 µs
Protective circuit	Short-circuit protection, overload protection of the sensor supply
Nominal input voltage $U_{IN}$	24 V DC
Nominal input current at $U_{IN}$	typ. 5 mA
Delay at signal change from 0 to 1	500 µs

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### Technical data

#### Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-wire
Number of outputs	16
Protective circuit	Short-circuit and overload protection
Nominal output voltage	24 V DC
Maximum output current per channel	500 mA

#### Electrical isolation

Test section	I/O / Logic 500 V AC 50 Hz 1 min.
	I/O area / FE 500 V AC 50 Hz 1 min.
	Logic / FE 500 V AC 50 Hz 1 min.

#### Standards and Regulations

Noise emission	Industrial environment
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g
Connection in acc. with standard	CUL

#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

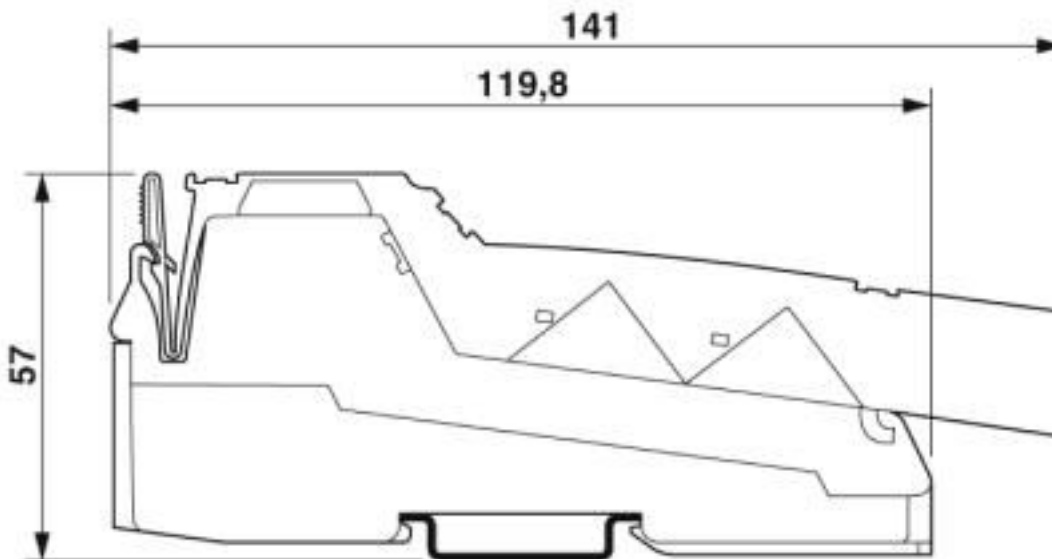
### Drawings

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Connection diagram



Dimensional drawing



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## Classifications

### eCl@ss

eCl@ss 10.0.1	27242604
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

### ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

## Approvals

### Approvals

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Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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### Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

#### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
EAC			EAC-Zulassung
cULus Recognized			

### Accessories

Accessories

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

Labeling panel

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### Accessories

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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### Plug

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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### Terminal marking

Insert strip - ESL 62X10 - 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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Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618

Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5 x 5.5 mm, Number of individual labels: 100



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### Accessories

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#### Software - IPASSIGN - 2701094



IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign.

This product is free and only available from the "Downloads" tab.

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### Spare parts

#### Inline connector - IB IL SCN-PWR IN-CP - 2727637



Connector, colored, for Inline power and segment terminal blocks

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#### Inline connector - IB IL SCN-12-ICP - 2727611



Connector, color coded, for digital 4, or 16-channel Inline input terminals

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#### Inline connector - IB IL SCN-12-OCP - 2727624



Connector, colored identification, for digital 4, or 16-channel Inline output terminal blocks

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