

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

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



Product Features

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



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	562.5 GRM
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
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I/O module - ILB ETH 24 DI16 DIO16-2TX - 2832962

Technical data

Ambient conditions

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

General

Weight	500 g
Note on weight specifications	with male connectors
Mounting type	DIN rail
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
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
	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

Interfaces

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

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

Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	2, 3-wire

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

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Digital inputs

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
Nominal input current at U _{IN}	typ. 5 mA
Delay at signal change from 0 to 1	500 µs

Digital outputs

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

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

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

Approvals

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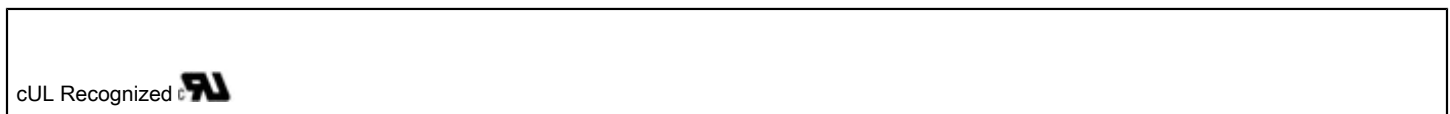
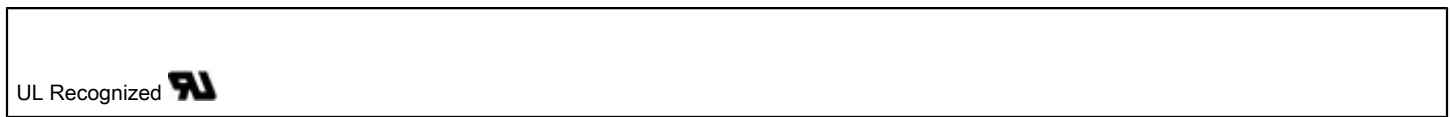
UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details



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.



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

Accessories

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.

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

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



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Accessories

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



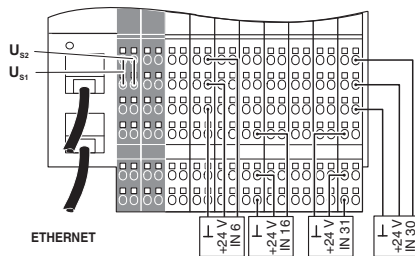
Software - IPASSIGN - 2701094



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. With a simple selection, you can filter out all of the devices except those from Phoenix Contact.

Drawings

Connection diagram



Dimensioned drawing

