

# ILB ETH 24 DI16 DIO16-2TX

Order No.: 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


## Ethernet

### Product notes

WEEE/RoHS-compliant since:  
11/27/2007



### Commercial data

GTIN (EAN)	 4 046356 012324
sales group	K444
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 319 (AX-2009)

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### Technical data

#### General data

Width	156 mm
Height	141.1 mm
Depth	57 mm

Note on dimensions	Specifications with male connectors
Weight	500 g
Note on weight specifications	with male connectors
Mounting type	DIN rail
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	max. 85 % ((no condensation))
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
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 IEC 60068-2-6 5g Shock in acc. with IEC 60068-2-27:1997 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

#### Interface

Fieldbus system	Modbus TCP/IP
Name	Ethernet
Type of connection	RJ45 female connector
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
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Description of the input	16 fixed and 16 freely selectable
Type of connection	Spring-cage connection
Connection method	2, 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 current at U <sub>IN</sub>	Typ. 5 mA
Delay at signal change from 0 to 1	500 µs

#### Digital outputs

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

#### Certificates / Approvals



Certification	CUL, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

#### Accessories

Item	Designation	Description
<b>Assembly</b>		
3022276	CLIPFIX 35-5	Snap-on end bracket, for NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 5 and ZBF 5, terminal strip marker KLM 2 and KLM, parking facility for FBS...5, FBS...6, KSS 5, KSS 6, width: 5,15 mm, color: gray
<b>Marking</b>		
0809492	ESL 62X10	Insert strip for laser printer, lettering field: 62 x 10 mm

2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
0808778	ZBF 6:SO/CMS	Zack strip, flat, 10-section, divisible, special printing, marking according to customer requirements
0803618	ZBFM 6/WH:UNBEDRUCKT	Zack marker sheet, flat, unprinted: 100-section, 10 strips à 10 markers, sufficient for 100 terminal blocks, for all terminal blocks, pitch 6.2 mm, labeling with M-PEN or CMS system, color: white
0803650	ZBFM 6:SO/CMS	Special printing, Zack marker sheet, flat, 100-section, divisible, marking according to customer requirements

**Plug/Adapter**

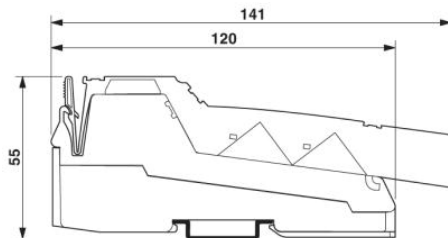
2744571	FL PLUG RJ45 GN/2	RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.
2744856	FL PLUG RJ45 GR/2	RJ45 connector, shielded, 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.

**Diagrams/Drawings**

Connection diagram



Dimensioned drawing



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