

ILB DN 24 DI16 DO16 - I/O module



2862602

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Inline, Block IO, DeviceNet™, TWIN COMBICON, Digital inputs: 16, 24 V DC, connection technology: 3-conductor, Digital outputs: 16, 24 V DC, connection technology: 3-conductor, degree of protection: IP20, including Inline connector

Your advantages

- 2 x 5-pos. TWIN-COMBICON male connector
- 16 outputs, 24 V DC, 500 mA
- 16 inputs, 24 V DC

Commercial data

Item number	2862602
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI1A4
GTIN	4017918929084
Weight per piece (including packing)	517.1 g
Weight per piece (excluding packing)	500 g
Customs tariff number	85389091
Country of origin	DE

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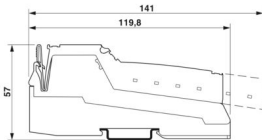
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Technical data

Dimensions

Dimensional drawing	
Width	156 mm
Height	141 mm
Depth	57 mm
Note on dimensions	Specifications with connectors

Notes

Note on application	
Note on application	Only for industrial use

Interfaces

DeviceNet™	
No. of channels	1
Connection method	TWIN COMBICON
Number of positions	10
Transmission speed	125 kbps ... 500 kbps

Input data

Digital:	
Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Number of inputs	16
Connection method	Spring-cage connection
Connection technology	3-conductor
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	5 mA
Total sensor current	max. 2 A
Typical response time	approx. 500 µs
Protective circuit	Short-circuit protection, overload protection of the sensor supply

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Output data

Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Short-circuit and overload protection
Output voltage	24 V DC
Maximum output current per channel	500 mA
Maximum output current per module / terminal block	8 A
Maximum output current per module	8 A
Nominal output voltage	24 V DC
Nominal load, inductive	12 VA
Nominal load, lamp	12 W
Nominal load, ohmic	12 W

Product properties

Product type	I/O component
Product family	Inline
Type	Stand-alone
	Inline
Scope of supply	including Inline connector
No. of channels	32

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	25 mA

Potentials

Current draw	2 A
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Potentials: Power supply to the actuator (U_{A1})

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	4 A

Potentials: Power supply to the actuator (U_{A2})

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	4 A

Potentials

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Current draw	25 mA
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Potentials

Current draw	2 A
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Electrical isolation/isolation of the voltage ranges

Test voltage: I/Os / logic	500 V AC, 50 Hz, 1 min
Test voltage: I/Os / FE	500 V AC, 50 Hz, 1 min
Test voltage: Logic/functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	85 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)

Standards and regulations

Noise emission	Industrial environment
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Mounting

Mounting type	NS 35/7,5
	DIN rail mounting

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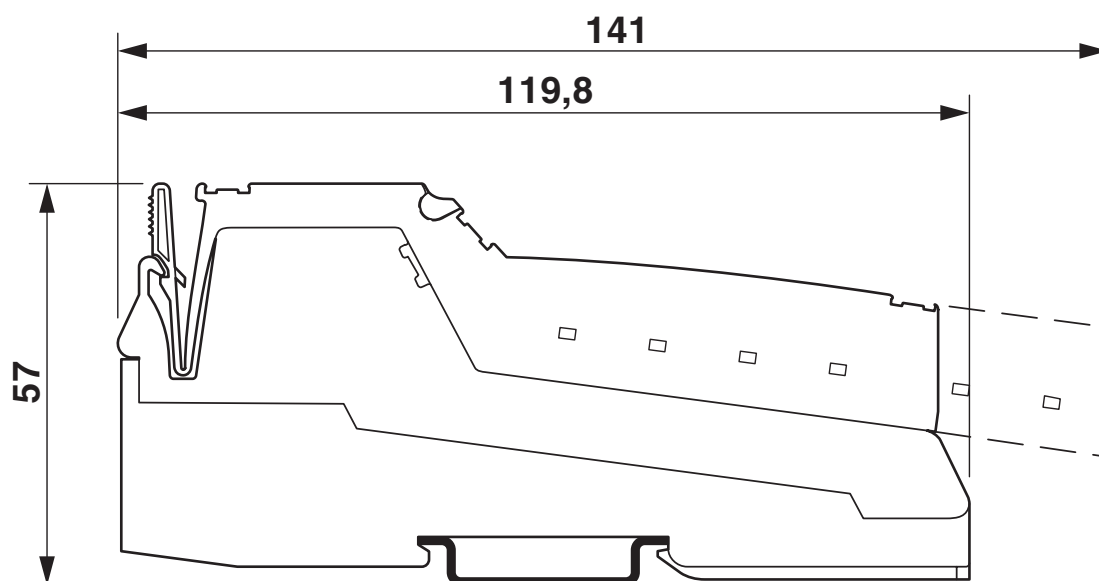
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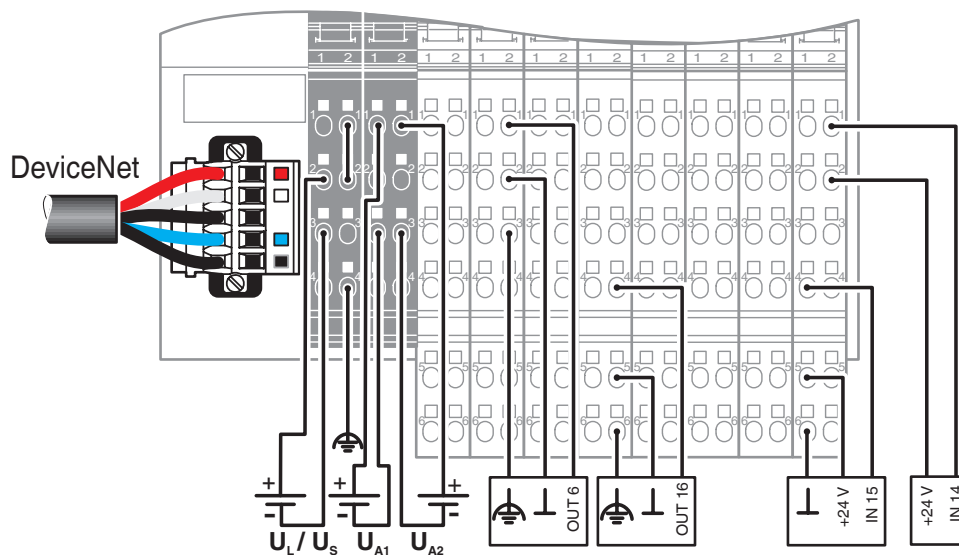
Drawings

Dimensional drawing

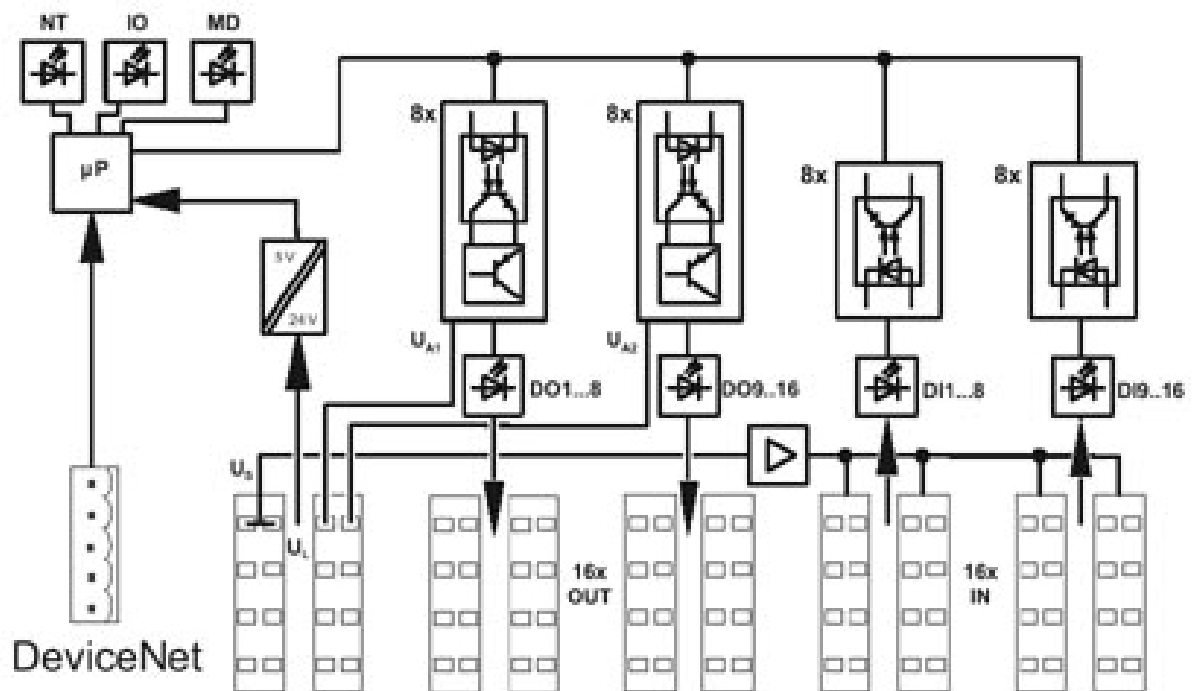


The figure shows the general dimensional drawing of the Inline Block IO product family

Connection diagram



Block diagram



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Classifications

ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

ETIM

ETIM 9.0	EC001599
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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