

ILB IB 24 DI16 - I/O module

2862330

<https://www.phoenixcontact.com/us/products/2862330>



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Inline, Block IO, INTERBUS, Inline shield connector, Digital inputs: 16, 24 V DC, connection technology: 3-conductor, degree of protection: IP20, including Inline connector



Your advantages

- Diagnostic and status indicators
- Connection of sensors in 2- and 3-conductor technology
- 16 digital inputs
- Maximum permissible load current per sensor: 125 mA

Commercial data

Item number	2862330
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI1A1
Catalog page	Page 222 (C-8-2015)
GTIN	4017918943066
Weight per piece (including packing)	353.4 g
Weight per piece (excluding packing)	300 g
Customs tariff number	85389091
Country of origin	DE

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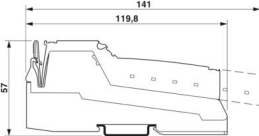
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Technical data

Dimensions

Dimensional drawing	
Width	95 mm
Height	141 mm
Depth	57 mm
Note on dimensions	Specifications with connectors

Material specifications

Color	green
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Interfaces

INTERBUS	
Connection method	Inline shield connector
Transmission speed	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. 4 A
Typical response time	approx. 500 µs
Protective circuit	Short-circuit protection, overload protection of the sensor supply

Product properties

Product type	I/O component
Product family	Inline
Type	Block design

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	Inline
Scope of delivery	including Inline connector
No. of channels	16

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	60 mA

Potentials: Sensor supply (U_S)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	2 A

Potentials

Current draw	60 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 / incoming remote bus	500 V AC, 50 Hz, 1 min
Test voltage: I/Os / outgoing remote bus	500 V AC, 50 Hz, 1 min
Test voltage: I/O area / FE	500 V AC, 50 Hz, 1 min
Test voltage: Incoming remote bus / FE	500 V AC, 50 Hz, 1 min
Test voltage: Outgoing remote bus / FE	500 V AC, 50 Hz, 1 min
Test voltage: Incoming remote bus / outgoing remote bus	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)	max. 85 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Noise emission	Class B (residential)

Mounting

Mounting type	DIN rail mounting
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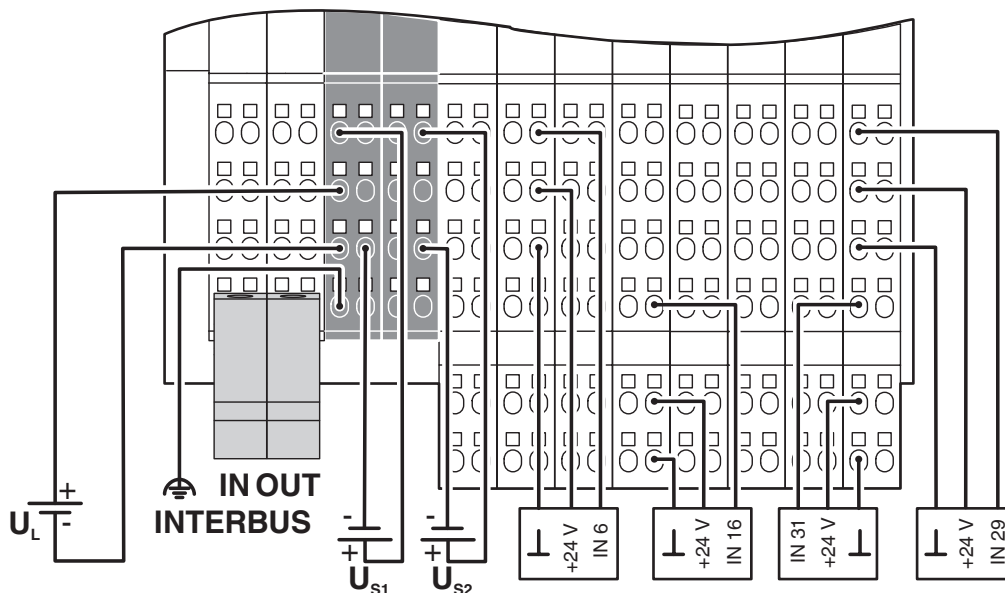
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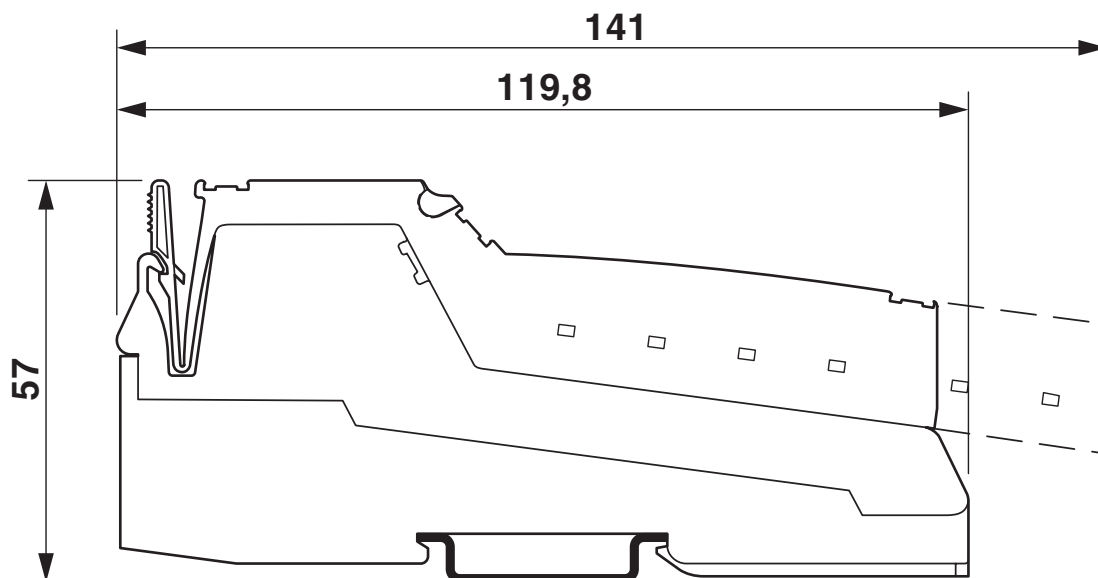


Drawings

Connection diagram



Dimensional drawing



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

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Classifications

UNSPSC

UNSPSC 21.0	32151602
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Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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