

ILB PB 24 DI 8 DIO8 - I/O module

2863562

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Inline, Block IO, PROFIBUS DP, D-SUB-9 female connector, Digital inputs: 16, 24 V DC, connection technology: 3-conductor, Digital outputs: 8, 24 V DC, connection technology: 3-conductor, degree of protection: IP20, including Inline connector

Your advantages

- D-SUB bus connection

Commercial data

Item number	2863562
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI1A2
Catalog page	Page 164 (C-6-2019)
GTIN	4017918956424
Weight per piece (including packing)	334 g
Weight per piece (excluding packing)	334 g
Customs tariff number	85389091
Country of origin	DE

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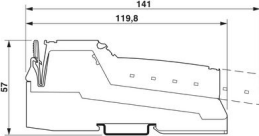
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Technical data

Dimensions

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

Interfaces

PROFIBUS DP		
Connection method		D-SUB-9 female connector
Number of positions		9
Transmission speed		9.6 kbps ... 12 Mbps

Input data

Digital		
Input name		Digital inputs
Description of the input		8 fixed and 8 freely selectable
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

Output data

Digital		
Output name		Digital outputs
Connection method		Spring-cage connection
Connection technology		3-conductor

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Number of outputs	8
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

Type	Block design
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connector
No. of channels	16

Electrical properties

No. of channels	16
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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: Power supply to the actuator (U_A)

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

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 / PROFIBUS	500 V AC, 50 Hz, 1 min.
Test voltage: I/O area / FE	500 V AC, 50 Hz, 1 min.
Test voltage: PROFIBUS / FE	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)	800 hPa ... 1080 hPa (up to 2000 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (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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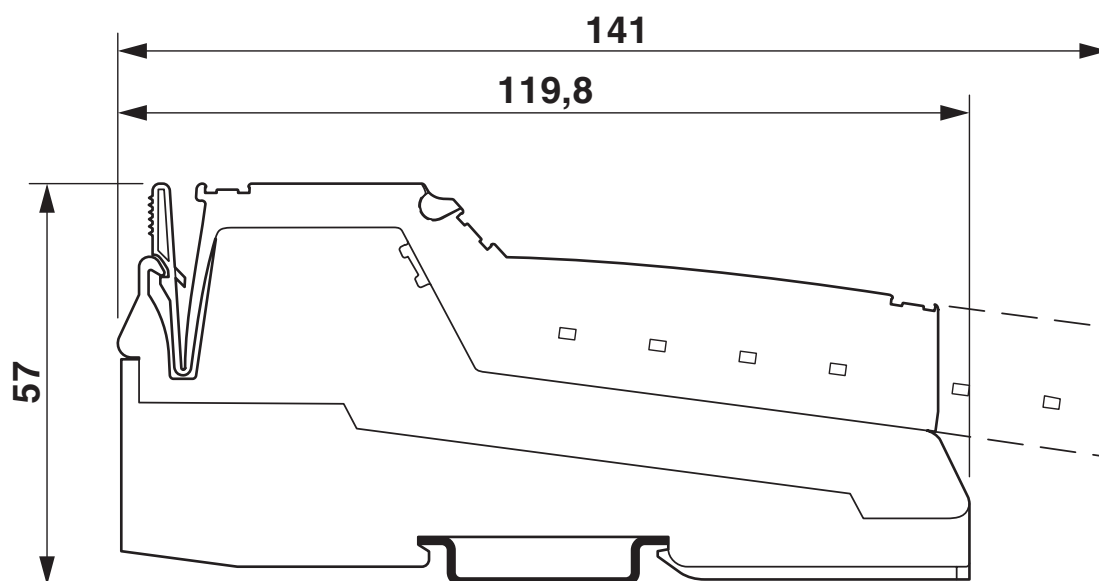
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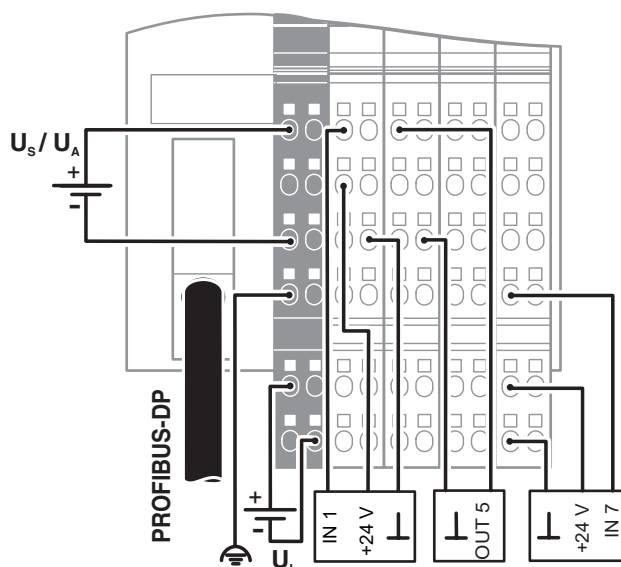
Drawings

Dimensional drawing



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

Connection diagram



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Classifications

ECLASS

ECLASS-11.0	27242604
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ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

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

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com