

# ILB PB 24 DI32 - I/O module



2862398

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Inline, Block IO, PROFIBUS DP, D-SUB-9 female connector, Digital inputs: 32, 24 V DC, connection technology: 3-conductor, degree of protection: IP20, including Inline connector



## Your advantages

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

## Commercial data

Item number	2862398
Packing unit	1 pc
Sales key	DR01
Product key	DRI1A2
GTIN	4017918929077
Weight per piece (including packing)	510.1 g
Weight per piece (excluding packing)	510 g
Customs tariff number	85389091
Country of origin	DE

# ILB PB 24 DI32 - I/O module

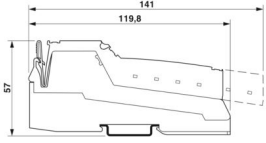
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## Technical data

### Dimensions

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

### Notes

#### Utilization restriction

CCcex note	Use in potentially explosive areas is not permitted in China.
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### 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	IEC 61131-2 type 1
Number of inputs	32
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 $\mu$ s
Protective circuit	Short-circuit protection, overload protection of the sensor supply

### Product properties

Product type	I/O component
Product family	Inline
Type	Block design
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)
Power supply	max. 8 A
Current draw	50 mA

### Potentials: Sensor supply ( $U_{S1}$ )

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A
Current draw	2 A

### Potentials: Sensor supply ( $U_{S2}$ )

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A
Current draw	2 A

### Potentials

Power supply	max. 8 A
Current draw	50 mA

### 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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### Inline connector

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

## Environmental and real-life conditions

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## 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

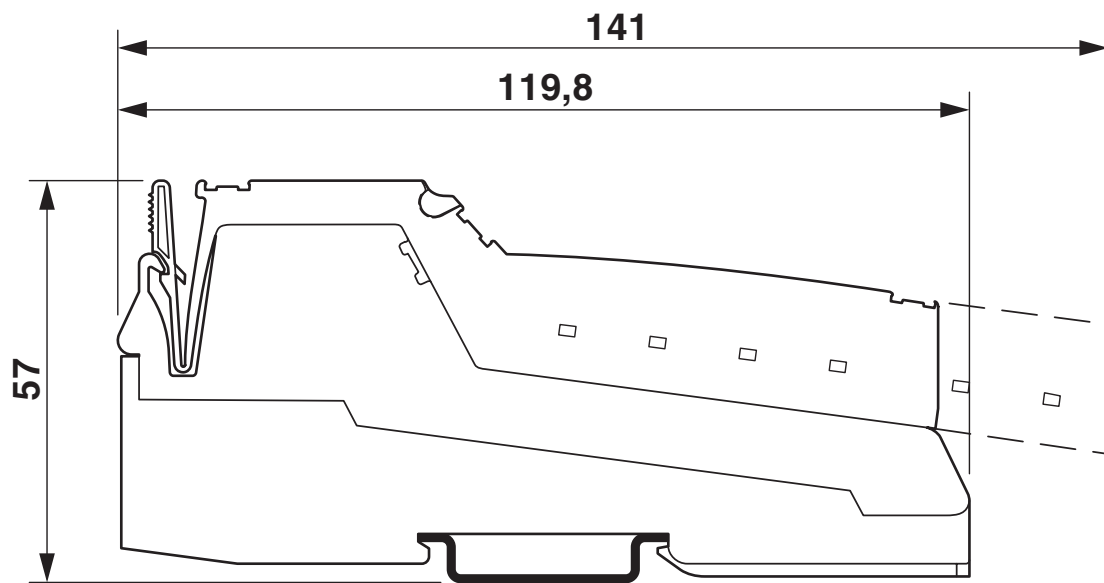
Noise emission	Industrial environment
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## Mounting

Mounting type	NS 35/7,5
	DIN rail mounting

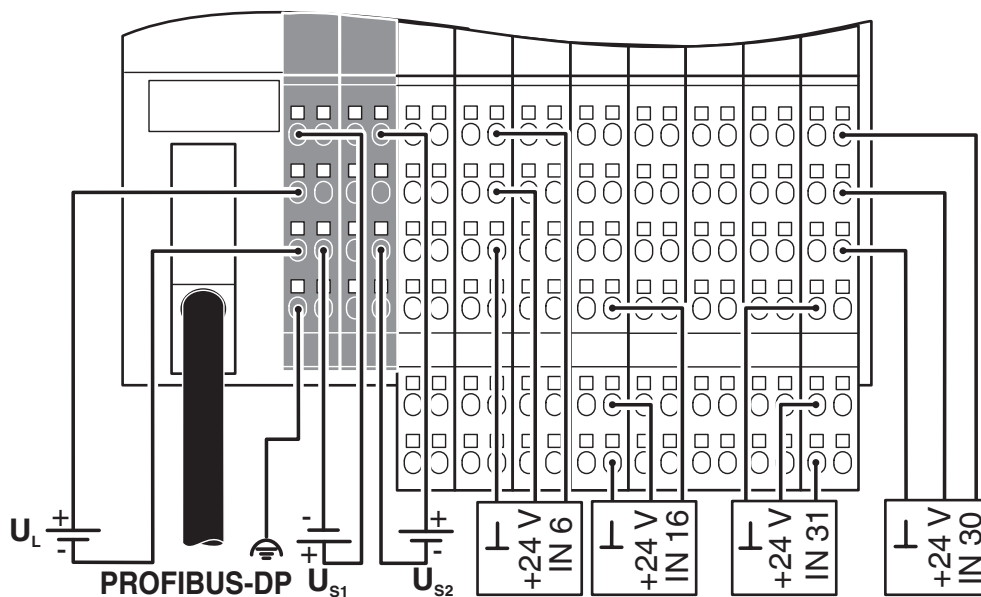
## Drawings

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-13.0	27242604
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

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

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

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