

## I/O module - ILB PB 24 DI32 - 2862398

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Inline, Block IO, PROFIBUS DP, D-SUB-9 female connector, Digital inputs: 32, 24 V DC, connection method: 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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 929077
GTIN	4017918929077
Weight per Piece (excluding packing)	510.100 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
	Use in potentially explosive areas is not permitted in China.

#### Dimensions

Caption	The figure shows the general dimensional drawing of the Inline Block IO product family
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### Technical data

#### Dimensions

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

#### Ambient conditions

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

#### General

Mounting type	DIN rail
Net weight	510 g
Note on weight specifications	with connectors
Mounting type	NS 35/7,5

#### Interfaces

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

#### Digital inputs

Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of inputs	32
Typical response time	approx. 500 µs
Protective circuit	Short-circuit protection, overload protection of the sensor supply
Nominal input voltage $U_{IN}$	24 V DC
Nominal input current at $U_{IN}$	5 mA
Switching threshold "0" signal current	max. 0.5 mA
Switching threshold "1" signal, current	min. 2 mA
Input voltage	24 V DC

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## Technical data

### Digital inputs

Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC

### Electrical isolation

Test section	I/Os / PROFIBUS 500 V AC 50 Hz 1 min.
	I/O area / FE 500 V AC 50 Hz 1 min.
	PROFIBUS / FE 500 V AC 50 Hz 1 min.

### Standards and Regulations

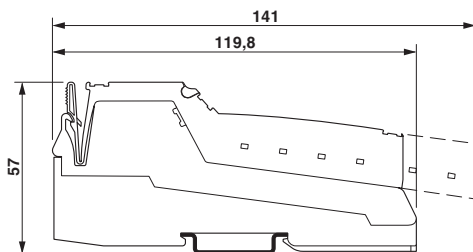
Noise emission	Industrial environment
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g
Connection in acc. with standard	CUL

### Environmental Product Compliance

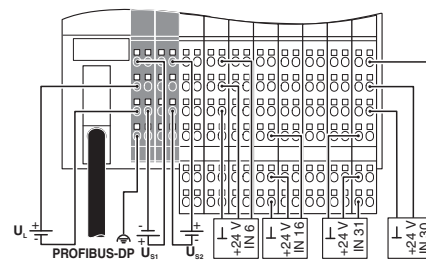
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



Connection diagram



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

## Classifications

eCI@ss

eCI@ss 10.0.1	27242604
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## Classifications

### eCl@ss

eCl@ss 11.0	27242604
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 9.0	27242604

### ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / PROFIBUS / cULus Recognized

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#### Ex Approvals

UL Listed / cUL Listed / cULus Listed


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### Approvals

#### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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PROFIBUS			Z00867
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cULus Recognized			
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