

I/O module - ILB PB 24 DI32 - 2862398

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




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

Your advantages

- ✓ 32 digital inputs
- ✓ Connection of sensors in 2 and 3-wire 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 |
|-------------------------|---|

Dimensions

| | |
|---------|--|
| Caption | The figure shows the general dimensional drawing of the Inline Block IO product family |
| Width | 156 mm |

I/O module - ILB PB 24 DI32 - 2862398

Technical data

Dimensions

| | |
|--------------------|--------------------------------|
| 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-wire |
| 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 |
| 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 |

Electrical isolation

I/O module - ILB PB 24 DI32 - 2862398

Technical data

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

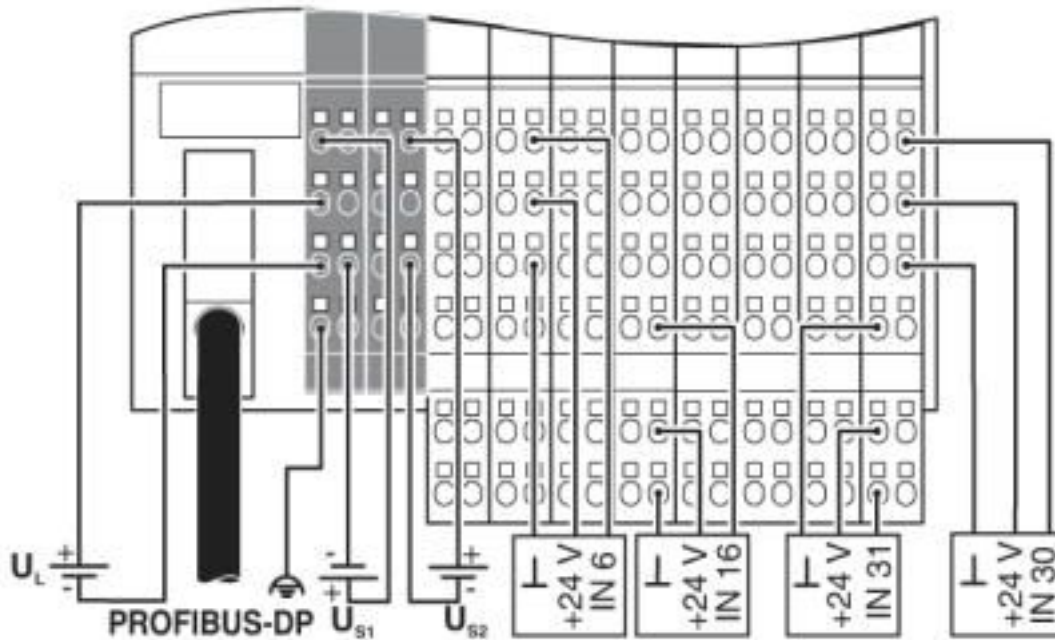
| | |
|----------------------------------|---|
| Noise emission | Industrial environment |
| Mechanical tests | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g |
| | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g |
| Connection in acc. with standard | CUL |

Environmental Product Compliance

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

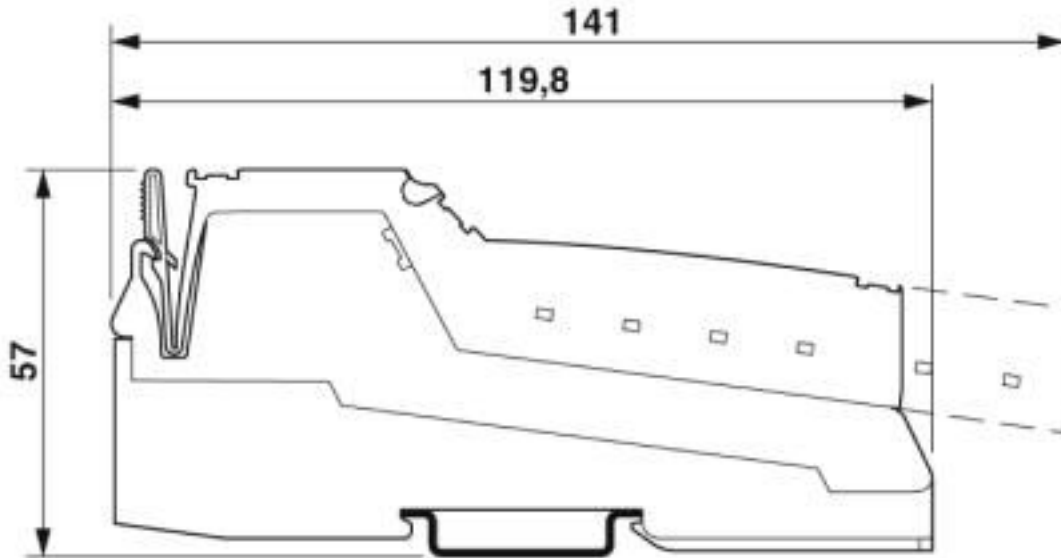
Drawings

Connection diagram



I/O module - ILB PB 24 DI32 - 2862398

Dimensional drawing



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

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 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 8.0 | 27242604 |
| eCl@ss 9.0 | 27242604 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001430 |
| ETIM 3.0 | EC001599 |
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001599 |
| ETIM 6.0 | EC001599 |
| ETIM 7.0 | EC001599 |

I/O module - ILB PB 24 DI32 - 2862398

Classifications

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

Approvals

UL Recognized / cUL Recognized / PROFIBUS / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

| | | | |
|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
|---------------|--|---|---------------|

| | | | |
|----------------|--|---|---------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
|----------------|--|---|---------------|

| | |
|----------|--------|
| PROFIBUS | Z00867 |
|----------|--------|

| | |
|------------------|--|
| cULus Recognized | |
|------------------|--|

I/O module - ILB PB 24 DI32 - 2862398

Accessories

Accessories

Data plug

D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348



D-SUB plug, 9-pos., pin, axial version with two cable entries, below 35°, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; spring-cage connection terminal blocks

End block

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Plug

Inline connector - IB IL SCN-PWR IN-CP - 2727637



Connector, colored, for Inline power and segment terminal blocks

I/O module - ILB PB 24 DI32 - 2862398

Accessories

Inline connector - IB IL SCN-12-ICP - 2727611



Connector, color coded, for digital 4, or 16-channel Inline input terminals

Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618



Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5 x 5.5 mm, Number of individual labels: 100