

# I/O module - ILB IB 24 DI16 DO16 - 2862385

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Inline, Block IO, INTERBUS, Inline shield connector, Digital inputs: 16, 24 V DC, connection method: 3-wire, Digital outputs: 16, 24 V DC, 500 mA, connection method: 3-wire, degree of protection: IP20, including Inline connector

## Your advantages

- 16 digital inputs
- 16 digital outputs
- Maximum permissible load current per sensor: 125 mA
- Maximum permissible load current from the terminal: 2 A
- Nominal current per output: 500 mA
- Total current of the terminal: 8 A
- Diagnostic and status indicators



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 017918 923860 |
| GTIN         | 4017918923860   |

## 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   |
| Height             | 141 mm   |
| Depth              | 57 mm  |
| Note on dimensions | Specifications with connectors   |

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## Technical data

### Ambient conditions

|  |   |
|--|---|
| Ambient temperature (operation)          | -25 °C ... 60 °C                                  |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C                                  |
| Permissible humidity (operation)         | max. 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        |
| Color                         | green           |
| Net weight                    | 500 g           |
| Note on weight specifications | with connectors |
| Mounting type                 | NS 35/7,5       |

### Interfaces

|                    |                         |
|--------------------|-------------------------|
| Designation        | INTERBUS                |
| Connection method  | Inline shield connector |
| Transmission speed | 500 kbps                |

### 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                  | 16   |
| 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  |

### Digital outputs

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Output name                        | Digital outputs                       |
| Connection method                  | Spring-cage connection                |
| Connection technology              | 3-wire                                |
| Number of outputs                  | 16                                    |
| Protective circuit                 | Short-circuit and overload protection |
| Output voltage                     | 24 V DC                               |
| Nominal output voltage             | 24 V DC                               |
| Maximum output current per channel | 500 mA                                |

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### Technical data

#### Digital outputs

|   |               |
|---|---------------|
| Maximum output current per module / terminal block        | 8 A           |
| Maximum output current per module                         | 8 A           |
| Nominal load, inductive                                   | 12 VA         |
| Nominal load, lamp  | 12 W          |
| Nominal load, ohmic                                       | 12 W          |
| Limitation of the voltage induced on circuit interruption | approx. -36 V |

#### Electrical isolation

|              |   |
|--------------|---|
| Test section | I/Os / incoming remote bus 500 V AC 50 Hz 1 min.                |
|              | I/Os / outgoing remote bus 500 V AC 50 Hz 1 min.                |
|              | I/O area / FE 500 V AC 50 Hz 1 min.                             |
|              | Incoming remote bus / FE 500 V AC 50 Hz 1 min.                  |
|              | Outgoing remote bus / FE 500 V AC 50 Hz 1 min.                  |
|              | Incoming remote bus / outgoing remote bus 500 V AC 50 Hz 1 min. |

#### Standards and Regulations

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

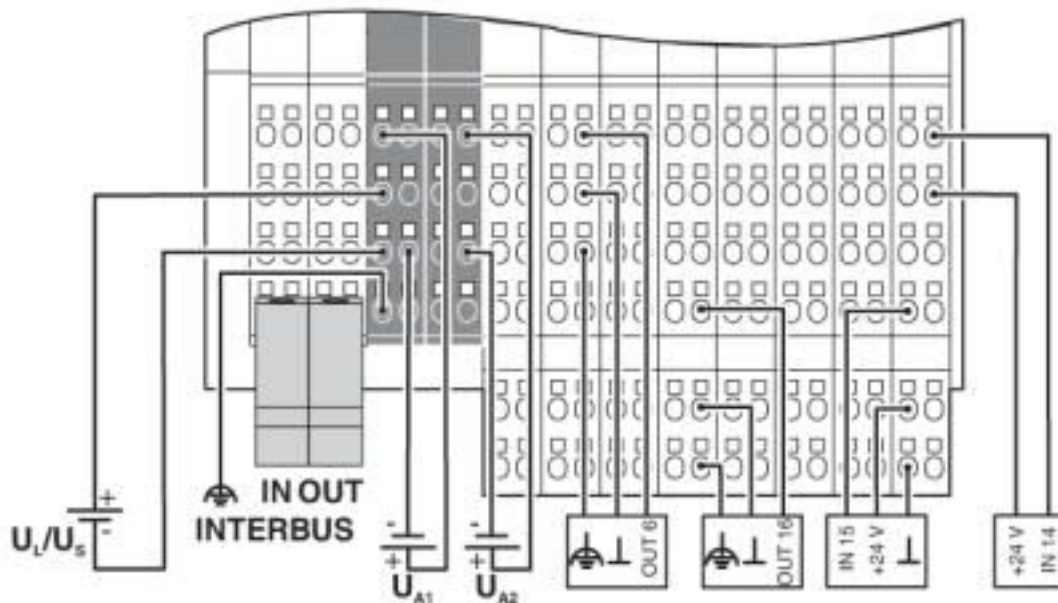
#### Environmental Product Compliance

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

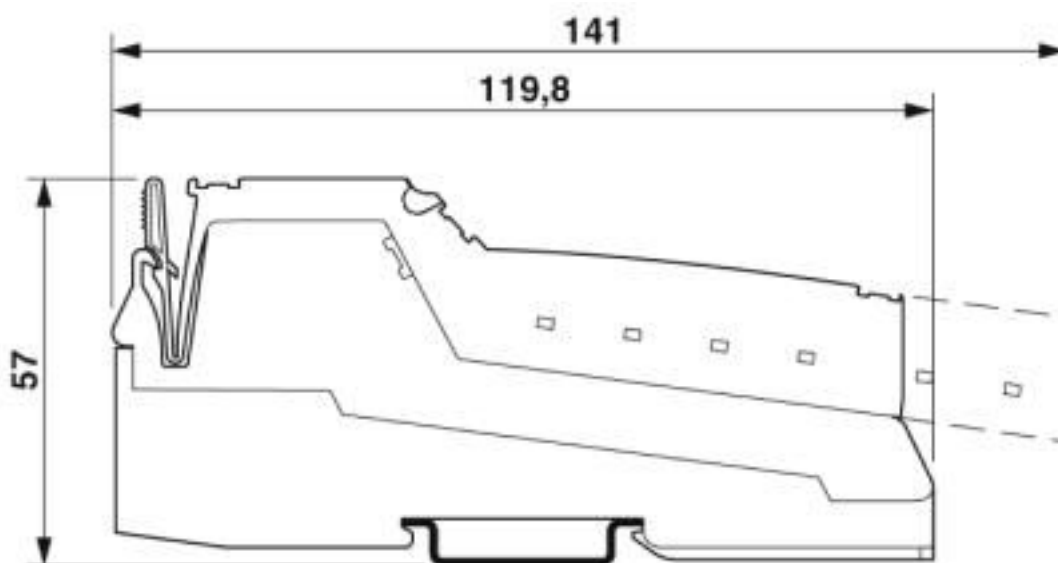
### Drawings

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Connection diagram



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 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| 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 |

### 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 / INTERBUS CLUB / cULus Recognized

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#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

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### 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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## Approvals

|                |  |   |               |
|----------------|--|---|---------------|
| 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 |
|----------------|--|---|---------------|

|               |              |
|---------------|--------------|
| INTERBUS CLUB | 436/10.08.04 |
|---------------|--------------|

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

## Accessories

### Accessories

#### 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

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### Accessories

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



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

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Inline connector - IB IL SCN-12-OCP - 2727624



Connector, colored identification, for digital 4, or 16-channel Inline output terminal blocks

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Inline shield connector - IB IL SCN-6 SHIELD-CP - 2863151



Shield connector, for INTERBUS connection

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### 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

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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

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