

# ILB IB 24 DI32

Order No.: 2862343



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2862343>

Inline Block IO digital input module, INTERBUS, 32 inputs, 24 V DC, 2, 3-wire connection technology



## Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 923839 |
| sales group              | K440                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85389091                                                                                               |
| Catalog page information | Page 322 (AX-2009)                                                                                     |

## Product notes

WEEE/RoHS-compliant since:  
11/10/2008



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## Technical data

### General data

|        |          |
|--------|----------|
| Width  | 156 mm   |
| Height | 140.5 mm |
| Depth  | 57 mm    |

|                                          |                                                                |
|------------------------------------------|----------------------------------------------------------------|
| Note on dimensions                       | Specifications with male connectors                            |
| Weight                                   | 405 g                                                          |
| Note on weight specifications            | with male connectors                                           |
| Mounting type                            | DIN rail                                                       |
| Ambient temperature (operation)          | -25 °C ... 60 °C                                               |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C                                               |
| Permissible humidity (operation)         | max. 85 % ((no condensation))                                  |
| Permissible humidity (storage/transport) | 95 % (no condensation)                                         |
| Air pressure (operation)                 | 80 kPa ... 108 kPa (up to 2000 m above mean sea level)         |
| Air pressure (storage/transport)         | 66 kPa ... 108 kPa (up to 3500 m above mean sea level)         |
| Degree of protection                     | IP20                                                           |
| Protection class                         | III, IEC 61140, EN 61140, VDE 0140-1                           |
| 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 |
|                                          |                                                                |
| Conformance with EMC directives          | EN55022:1998+A1:2000 Class B                                   |
| Noise emission                           | Class B (residential)                                          |
| Mechanical tests                         | Vibration (operation) in acc. with IEC 60068-2-6:1982 5g       |
|                                          | Shock test in acc. with IEC 60068-2-27 25g                     |

**Interface**

|                    |                     |
|--------------------|---------------------|
| Fieldbus system    | INTERBUS            |
| Name               | INTERBUS remote bus |
| Type of connection | Inline connectors   |
| Transmission speed | 500 kBaud           |
|                    | 500 kBit/s          |

**Power supply for module electronics**

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| Supply voltage       | 24 V DC                                                            |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Supply current       | 60 mA                                                              |
| Current consumption  | Approx. 60 mA                                                      |

**Digital inputs**

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| Input name                        | Digital inputs                                                     |
| Description of the input          | EN 61131-2 type 1                                                  |
| Type of connection                | Spring-cage connection                                             |
| Connection method                 | 2, 3-wire                                                          |
| Number of inputs                  | 32                                                                 |
| Typical response time             | Approx. 500 µs                                                     |
| Protective circuit                | Short-circuit protection, overload protection of the sensor supply |
| 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 current at $U_{IN}$ | 5 mA                                                               |

**Certificates / Approvals**

Certification

CUL, UL

Certification Ex:

CUL-EX LIS, UL-EX LIS

**Accessories**

| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

**Assembly**

|         |              |                                                                                                                                                                                                                              |
|---------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3022276 | CLIPFIX 35-5 | Snap-on end bracket, for NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 5 and ZBF 5, terminal strip marker KLM 2 and KLM, parking facility for FBS...5, FBS...6, KSS 5, KSS 6, width: 5,15 mm, color: gray |
|---------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Marking**

|         |               |                                                                                                       |
|---------|---------------|-------------------------------------------------------------------------------------------------------|
| 0809492 | ESL 62X10     | Insert strip for laser printer, lettering field: 62 x 10 mm                                           |
| 2727501 | IB IL FIELD 2 | Labeling field, width: 12.2 mm                                                                        |
| 0808778 | ZBF 6:SO/CMS  | Zack strip, flat, 10-section, divisible, special printing, marking according to customer requirements |

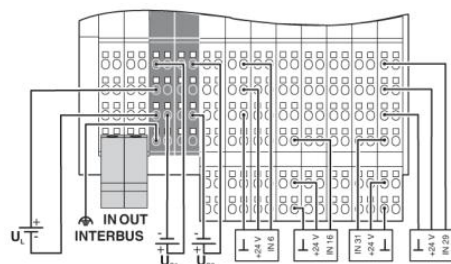
|         |                      |                                                                                                                                                                                                     |
|---------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0803618 | ZBFM 6/WH:UNBEDRUCKT | Zack marker sheet, flat, unprinted: 100-section, 10 strips à 10 markers, sufficient for 100 terminal blocks, for all terminal blocks, pitch 6.2 mm, labeling with M-PEN or CMS system, color: white |
| 0803650 | ZBFM 6:SO/CMS        | Special printing, Zack marker sheet, flat, 100-section, divisible, marking according to customer requirements                                                                                       |

#### Plug/Adapter

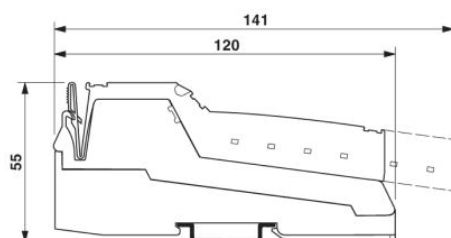
|         |                       |                                                                             |
|---------|-----------------------|-----------------------------------------------------------------------------|
| 2727611 | IB IL SCN-12-ICP      | Connector, color coded, for digital 4, or 16-channel Inline input terminals |
| 2863151 | IB IL SCN-6 SHIELD-CP | Shield connector, for INTERBUS connection                                   |
| 2727637 | IB IL SCN-PWR IN-CP   | Connector, colored, for Inline power and segment terminal blocks            |

#### Diagrams/Drawings

##### Connection diagram



##### Dimensioned drawing



The illustration shows the general dimensional drawing of the Inline Block I/O product family

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