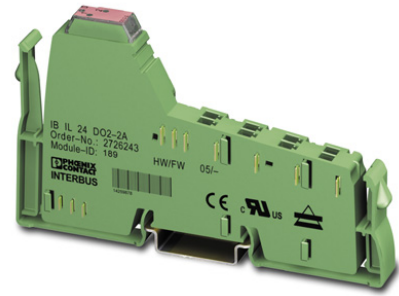


# IB IL 24 DO 2-2A


Order No.: 2726243



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2726243>

Inline digital output terminal block, without accessories, 2 outputs, 24 V DC, 2A, 4-wire connection method



| Commercial data          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 168100 |
| sales group              | K411                                                                                                 |
| Pack                     | 1 pcs.                                                                                               |
| Customs tariff           | 85389091                                                                                             |
| Catalog page information | Page 67 (AX-2007)                                                                                    |

### Product notes

WEEE/RoHS-compliant since:  
06/28/2006



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### Product description

The digital Inline output terminals are designed for the connection of digital actuators, such as electromagnetic valves, contactors or visual indicators.

All the typical applications are covered by the standard automation terminals.

The I/O equipment is connected by a simple or an extended Inline connector, depending on the number of channels. The multi-wire connection method is available in both cases.

The Inline terminals can be labeled using hinged labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the proven ZBFM-6... Zack strip for labeling the terminal points.

## Technical data

### Interface

|                    |                    |
|--------------------|--------------------|
| Name               | Local bus          |
| Type of connection | Inline data jumper |
| Transmission speed | 500 kBaud          |

### Digital outputs

|                                    |                                                          |
|------------------------------------|----------------------------------------------------------|
| Output name                        | Digital outputs                                          |
| Type of connection                 | Spring-cage connection                                   |
| Connection method                  | 2, 3, 4-wire                                             |
| Number of outputs                  | 2                                                        |
| Protective circuit                 | Overload protection, short-circuit protection of outputs |
| Output voltage                     | 24 V DC ( $U_s - 1$ V)                                   |
| Nominal output voltage             | 24 V DC (voltage difference at $I_{nom} \leq 1$ V)       |
| Maximum output current per channel | 2 A                                                      |
| Maximum output current per module  | 4 A                                                      |
| Nominal load, inductive            | 48 W                                                     |
| Nominal load, lamp                 | 48 W                                                     |
| Nominal load, ohmic                | 48 VA                                                    |

### Power supply for module electronics

|                            |                                 |
|----------------------------|---------------------------------|
| Supply voltage             | 24 V DC (via voltage jumper)    |
| Supply voltage range       | 19.2 V DC ... 30 V DC           |
| Communications power $U_L$ | 7.5 V (via voltage jumper)      |
| Current consumption        | max. 35 mA (from the local bus) |

### General data

|                                         |                    |
|-----------------------------------------|--------------------|
| Width                                   | 12.2 mm            |
| Height                                  | 119.8 mm           |
| Depth                                   | 71.5 mm            |
| Note on dimensions                      | Housing dimensions |
| Weight                                  | 46 g               |
| Note on weight specifications           | Without plug       |
| Mounting type                           | DIN rail           |
| Ambient temperature (operation)         | -25 °C ... 55 °C   |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C   |

|                                          |                                                                                                                                             |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Permissible humidity (operation)         | 10 % ... 95 % (according to DIN EN 61131-2)                                                                                                 |
| Permissible humidity (storage/transport) | 10 % ... 95 % (according to DIN EN 61131-2)                                                                                                 |
| Air pressure (operation)                 | 70 kPa ... 106 kPa (up to 3000 m above sea level)                                                                                           |
| Air pressure (storage/transport)         | 70 kPa ... 106 kPa (up to 3000 m above sea level)                                                                                           |
| Degree of protection                     | IP20                                                                                                                                        |
| Protection class                         | III, IEC 61140, EN 61140, VDE 0140-1                                                                                                        |
| Test section                             | 5 V supply incoming remote bus/7.5 V supply (bus logic) 500 V AC 50 Hz 1 min                                                                |
|                                          | 5 V supply outgoing remote bus/7.5 V supply (bus logic) 500 V AC 50 Hz 1 min                                                                |
|                                          | 7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min                                                                            |
|                                          | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min                                                                            |
| Diagnostics messages                     | Short-circuit / overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module |

#### Inline potential routing

|                                |                         |
|--------------------------------|-------------------------|
| Communications power $U_L$     | 7.5 V DC                |
| Current consumption from $U_L$ | max. 35 mA              |
| Main circuit supply $U_M$      | 24 V DC                 |
| Segment supply voltage $U_s$   | 24 V DC (nominal value) |
| Current consumption from $U_s$ | max. 4 A                |

#### Certificates / Approvals



|                   |                               |
|-------------------|-------------------------------|
| Certification     | CUL, GOST, TUEV-RH, UL        |
| Certification Ex: | CUL-EX LIS, PxC-EX, UL-EX LIS |

#### Accessories

| Item           | Designation | Description                                                 |
|----------------|-------------|-------------------------------------------------------------|
| <b>Marking</b> |             |                                                             |
| 0809492        | ESL 62X10   | Insert strip for laser printer, lettering field: 62 x 10 mm |

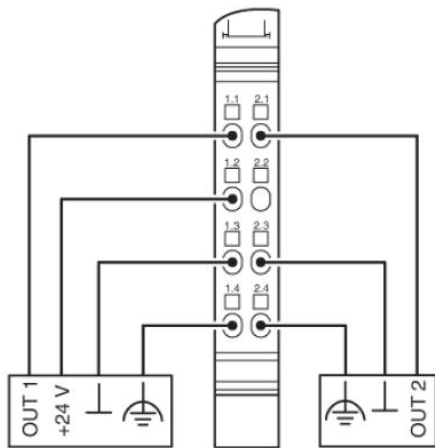
|         |               |                                                             |
|---------|---------------|-------------------------------------------------------------|
| 0809502 | ESL 62X46     | Insert strip for laser printer, lettering field: 62 x 46 mm |
| 2727501 | IB IL FIELD 2 | Labeling field, width: 12.2 mm                              |
| 2727515 | IB IL FIELD 8 | Labeling field, width: 48.8 mm                              |

**Plug/Adapter**

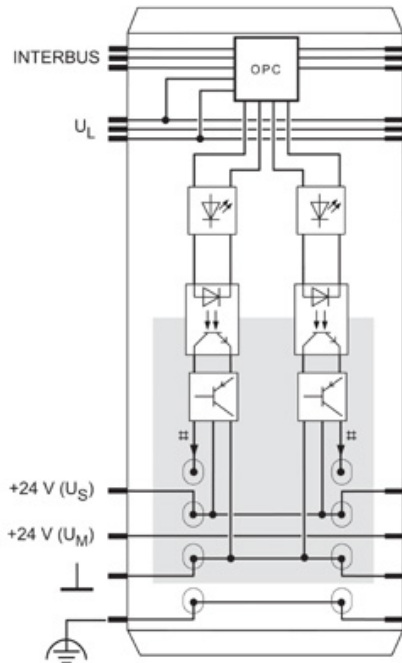
|         |                |                                                           |
|---------|----------------|-----------------------------------------------------------|
| 2726337 | IB IL SCN-8    | Connector, for digital 1, 2 or 8-channel Inline terminals |
| 2727608 | IB IL SCN-8-CP | Inline connector, colored                                 |

**Diagrams/Drawings**

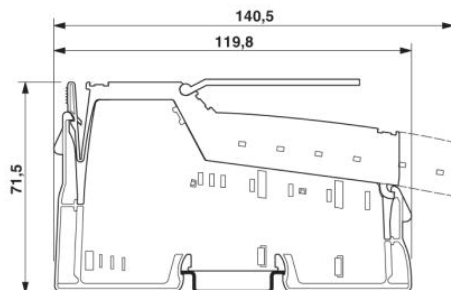
Connection diagram



### Block diagram



### Dimensioned drawing



### FAQs

- **Can I connect outputs in parallel to increase the output current, and must I pay attention to anything special?**

It is generally possible to connect the outputs in parallel. Please ensure that - Both outputs are connected to the same supply voltage in the same segment - Both outputs are always switched simultaneously - The maximum power to switch off an inductive load does not increase. The value for an individual channel (150 mJ at  $I_{nom} = 0.5$  A and 2.4 J at 2 A) applies when several channels are connected in parallel

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