

## Inline function terminal - IB IL PWM/2-PAC - 2861632

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Inline function terminal for pulse width and frequency modulation or activation of impulse-driven motor control parts with pulse/direction interface, two outputs for 5 V or 24 V

### Product Description

The terminal is designed for use within an Inline station.


Two channels that operate independently of one another offer the option of pulse width modulation (PWM) for the output signals.

The terminal block supports the following operating modes: PWM (pulse width modulation), frequency generator, single shot (single pulse generator), and pulse direction signal.

### Your advantages

- 2 independent channels
- Output of 5 V or 24 V signals
- Maximum frequency of 50 kHz
- Pulse direction signal output without integrated ramp function for controlling step motor power supply units
- Single pulse output (pulse length of 10  $\mu$ s to 25.5 s can be set)
- Pulse width modulation (period length can be set in increments from 100  $\mu$ s to 10 s, duty factor in 0.39% increments)
- Frequency output (frequency can be set between 0 Hz and 50 kHz)

### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 948313 |
| GTIN                                 | 4017918948313   |
| Weight per Piece (excluding packing) | 160.000 g   |
| Custom tariff number                 | 85389091  |
| Country of origin                    | Germany   |

## Inline function terminal - IB IL PWM/2-PAC - 2861632

### Technical data

#### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

#### Dimensions

|        |          |
|--------|----------|
| Width  | 24.4 mm  |
| Height | 136.8 mm |
| Depth  | 71.5 mm  |

#### Ambient conditions

|  |   |
|--|---|
| Ambient temperature (operation)          | -25 °C ... 55 °C                                  |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C                                  |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing)                    |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing)                    |
| 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  |

#### General

|                               |  |
|-------------------------------|--|
| Mounting type                 | DIN rail                                       |
| Net weight                    | 163 g  |
| Note on weight specifications | with connectors                                |
| Operating mode                | Process data operation with 2 words            |
| Diagnostics messages          | Short circuit or overload of a 24 V output Yes |

#### Interfaces

|                    |                    |
|--------------------|--------------------|
| Designation        | Inline local bus   |
| No. of channels    | 2                  |
| Connection method  | Inline data jumper |
| Transmission speed | 500 kbps           |

#### Inline potentials

|                     |                                  |
|---------------------|----------------------------------|
| Designation         | Communications power ( $U_t$ )   |
| Supply voltage      | 7.5 V DC (via voltage jumper)    |
| Current consumption | max. 130 mA                      |
| Power consumption   | max. 0.98 W                      |
| Designation         | Segment circuit supply ( $U_s$ ) |
| Supply voltage      | 24 V DC (via voltage jumper)     |
| Current consumption | max. 1 A                         |
|                     | 0 A                              |

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### Technical data

#### Digital outputs

|   |  |
|---|--|
| Output name   | Digital output: 24 V DC  |
| Connection technology                                     | 2-wire (shielded)  |
| Number of outputs   | 2  |
| Protective circuit  | Short-circuit protection, overload protection of the outputs integrated damping diode for each channel |
| Output voltage  | 24 V   |
| Nominal output voltage                                    | 24 V DC  |
| Maximum output current per module / terminal block        | 1 A  |
| Nominal load, inductive                                   | 12 VA (1.2 H, 24 Ω)  |
| Nominal load, lamp  | 12 W   |
| Nominal load, ohmic                                       | 12 W   |
| Output name   | Digital output: 5 V DC   |
| Connection technology                                     | 2-wire (shielded)  |
| Maximum operating frequency with ohmic nominal load       | 50 kHz   |
| Limitation of the voltage induced on circuit interruption | approx. -25 V  |
| Behavior with overload                                    | Auto restart   |
| Reverse voltage resistance to short pulses                | Reverse voltage proof  |

#### Standards and Regulations

|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

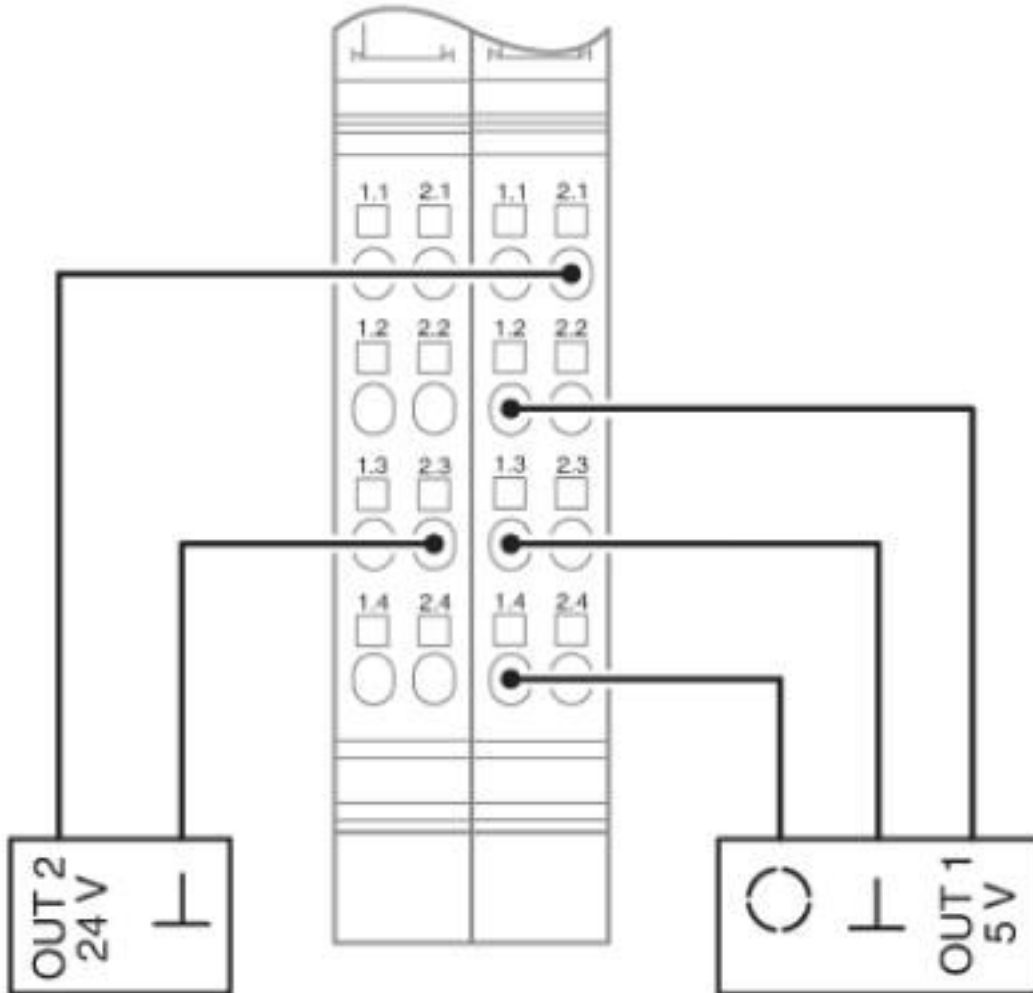
#### Environmental Product Compliance

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

### Drawings

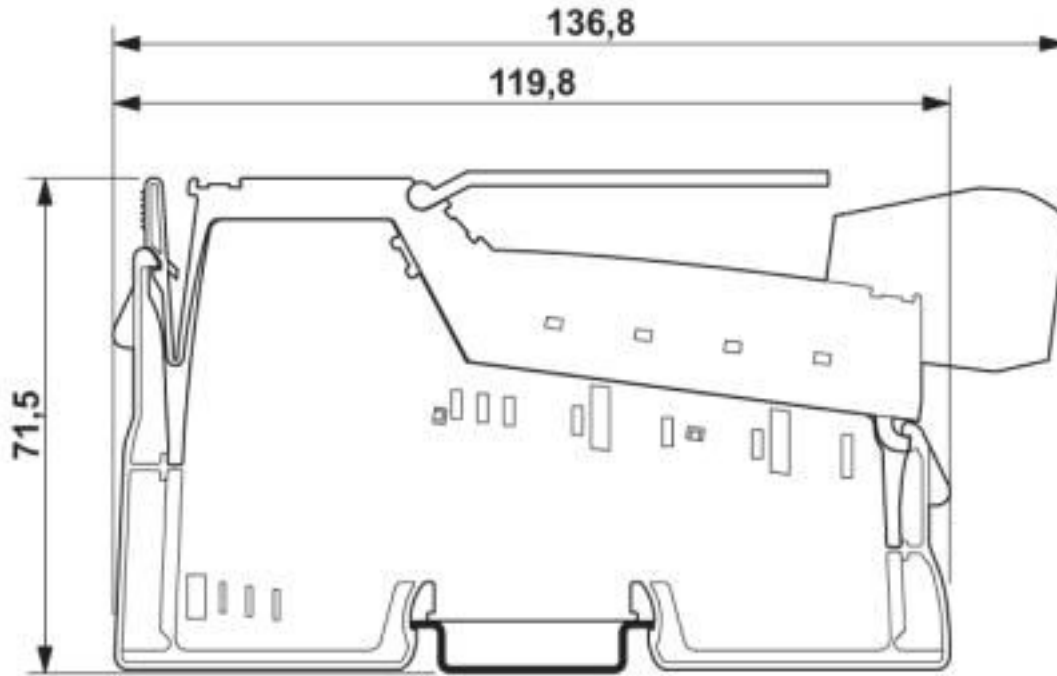
# Inline function terminal - IB IL PWM/2-PAC - 2861632

Connection diagram



# Inline function terminal - IB IL PWM/2-PAC - 2861632

Dimensional drawing



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242605 |
| 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    | 27242605 |
| eCl@ss 8.0    | 27242605 |
| eCl@ss 9.0    | 27242605 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001430 |
| ETIM 3.0 | EC001599 |
| ETIM 4.0 | EC001601 |
| ETIM 5.0 | EC001601 |
| ETIM 6.0 | EC001601 |
| ETIM 7.0 | EC001601 |

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## 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

DNV GL / BSH / BV / LR / ABS / BSH / RINA / UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

### Approval details

|        |   |   |            |
|--------|---|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAA00002CU |
|--------|---|---|------------|

|     |  |  |                 |
|-----|--|--|-----------------|
| BSH |  |  | Anwenderhinweis |
|-----|--|--|-----------------|

|    |   |   |             |
|----|---|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 20989/B2_BV |
|----|---|---|-------------|

|    |   |   |          |
|----|---|---|----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 08/20033 |
|----|---|---|----------|

|     |  |   |                  |
|-----|--|---|------------------|
| ABS |  | <a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a> | 17-HG1621871-PDA |
|-----|--|---|------------------|

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## Approvals

|              |  |   |               |
|--------------|--|---|---------------|
| BSH          |  |   | 658           |
| RINA         |  | <a href="http://www.rina.org/en">http://www.rina.org/en</a>   | ELE335818XG   |
| UL Listed    |  | <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 |
| cUL Listed   |  | <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 |
| cULus Listed |  |   |               |

## Accessories

### Accessories

#### Connector set

Connector set - IB IL AO/CNT-PLSET - 2732664



Connector set

#### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



## Inline function terminal - IB IL PWM/2-PAC - 2861632

### Accessories

#### 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