

## Inline terminal - IB IL AO 2/SF-PAC - 2863083

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Inline analog output terminal, complete with accessories (connector and labeling field), 2 outputs, 0-20 mA, 4-20 mA, 0-10 V, 2-conductor connection method

### Product description

The analog Inline output terminals are used in applications in which analog actuators are to be addressed. With these terminals, common current and voltage output ranges can be configured individually. The analog signals are made available with a resolution of 16 bits. It goes without saying that you also have advantages in handling with the analog Inline output terminals, such as multi-wire connection or the automatic contact with the grounding conductor when the terminal is snapped onto the DIN rail. 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.

### Product Features

- Short update time of < 1 ms
- Short-circuit-proof current outputs
- Bipolar outputs
- Measured value acquisition with 16-bit resolution



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Weight per Piece (excluding packing) | 218.9 GRM |
| 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

|       |         |
|-------|---------|
| Width | 48.8 mm |
|-------|---------|

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### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Height | 135 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 % (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  |

#### General

|                  |   |
|------------------|---|
| Weight           | 125 g   |
| Mounting type    | DIN rail  |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1  |
| Test section     | 7.5 V supply (bus logic), 24 V supply $U_{ANA}$ / I/O 500 V AC 50 Hz 1 min                    |
|                  | 7.5 V supply (bus logic), 24 V supply $U_{ANA}$ /functional earth ground 500 V AC 50 Hz 1 min |
|                  | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min                              |

#### Interfaces

|                      |                    |
|----------------------|--------------------|
| Designation          | Inline local bus   |
| Connection method    | Inline data jumper |
| Transmission speed   | 500 kBit/s         |
| Transmission physics | Copper             |

#### Inline potentials

|                                    |                               |
|------------------------------------|-------------------------------|
| Communications power $U_L$         | 7.5 V DC (via voltage jumper) |
| Current consumption from $U_L$     | max. 45 mA                    |
|                                    | typ. 36 mA                    |
| I/O supply voltage $U_{ANA}$       | 24 V DC                       |
| Current consumption from $U_{ANA}$ | max. 95 mA                    |
|                                    | typ. 75 mA                    |

#### Analog outputs

|                   |  |
|-------------------|--|
| Number of outputs | 2  |
| Connection method | Spring-cage connection with direct connector-in method |
|                   | 2-wire (shielded)                                      |
| Output name       | Analog outputs   |

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### Technical data

#### Analog outputs

|                                 |  |
|---------------------------------|--|
| D/A conversion time             | < 100 $\mu$ s                              |
| D/A resolution                  | 16 bit                                     |
| Type of protection              | Short-circuit protection of outputs        |
| Representation of output values | 16 bits (15 bits + sign)                   |
| DAC resolution                  | 16 Bit                                     |
| Process data update             | < 1 ms                                     |
| Current output signal           | 0 mA ... 20 mA                             |
|                                 | 4 mA ... 20 mA                             |
| Load/output load current output | > 500 $\Omega$                             |
| Voltage output signal           | 0 V ... 10 V                               |
| Load/output load voltage output | > 2 k $\Omega$ 0.03%                       |
| Precision                       | typ. 0.01 % (of output range final value)  |
|                                 | typ. 0.008 % (of output range final value) |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250303 |
| eCl@ss 4.1 | 27250303 |
| eCl@ss 5.0 | 27250303 |
| eCl@ss 5.1 | 27242601 |
| eCl@ss 6.0 | 27242601 |
| eCl@ss 7.0 | 27242601 |
| eCl@ss 8.0 | 27242601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001431 |
| ETIM 3.0 | EC001596 |
| ETIM 4.0 | EC001596 |
| ETIM 5.0 | EC001596 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 43201404 |

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## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / LR / GL / BV / DNV / ABS / RINA / GL-SW / BSH / BSH / cULus Recognized / GL

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#### Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / cUL Listed / cULus Listed / cULus Listed

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#### Approvals submitted

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### Approval details

UL Recognized 

cUL Recognized 

LR

GL

BV

DNV

ABS

RINA

GL-SW

BSH

## Inline terminal - IB IL AO 2/SF-PAC - 2863083

### Approvals

BSH

cULus Recognized 

GL

### Accessories

#### Accessories

##### Connector set

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



Connector set

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#### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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#### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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### Accessories

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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### Plug

Inline shield connector - IB IL SCN-6 SHIELD - 2726353



Inline shield connector

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Inline connector - IB IL SCN-8 - 2726337



Connector, for digital 1, 2 or 8-channel Inline terminals

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Inline connector - IB IL SCN-8-CP - 2727608



Inline connector, colored

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### Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

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## Accessories

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

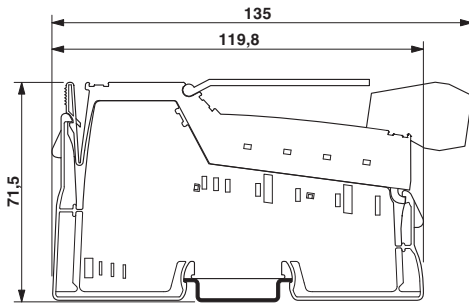
Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618



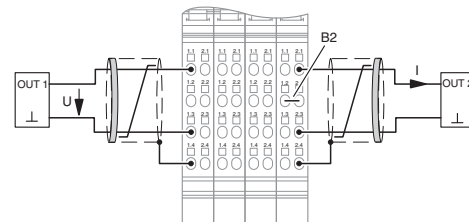
Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm

## Drawings

Dimensioned drawing



Connection diagram



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Block diagram

