

## Inline terminal - IB IL AO 2/U/BP-PAC - 2861467

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Inline, Analog output terminal, Analog outputs: 2, 0 V ... 10 V, -10 V ... 10 V, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

### Product Description

The terminal is designed for use within an Inline station. It is used to output analog voltage signals.


### Your advantages

- 2 analog output channels
- Connection of actuators in 2-wire technology
- Voltage ranges: 0 V ... 10 V,  $\pm 10$  V
- Output values can be represented in two different formats
- Behavior of the outputs in the event of an error can be configured
- Process data update including conversion time of the digital/analog converter < 1 ms
- Very good output driver characteristics, making it also suitable for long actuator cables

RoHS

- MUX

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 894382
GTIN	4017918894382
Weight per Piece (excluding packing)	96.800 g
Custom tariff number	85389099
Country of origin	Germany

### Technical data

#### Note

# Inline terminal - IB IL AO 2/U/BP-PAC - 2861467

## Technical data

### Note

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

Width	12.2 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
Color	green
Net weight	48 g
Note on weight specifications	with connector
Diagnostics messages	Failure of or insufficient communications power $U_L$ I/O error message sent to the bus coupler

### Interfaces

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

### Inline potentials

Designation	Communications power ( $U_L$ )
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	typ. 33 mA
	max. 40 mA
Designation	Supply of analog modules ( $U_{ANA}$ )
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 18 mA (No-load)

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### Technical data

#### Inline potentials

	max. 28 mA (No-load)
	typ. 25 mA (Full load ( $R_L = 2 \text{ k}\Omega$ ))
	max. 35 mA (Full load ( $R_L = 2 \text{ k}\Omega$ ))
Power consumption	typ. 0.68 W (No-load)

#### Analog outputs

Number of outputs	2
Connection technology	2-wire
Note regarding the connection technology	shielded
Output name	Analog outputs
D/A conversion time	< 100 ns
Type of protection	Transient protection of outputs
Data formats	IB IL, IB ST
Representation of output values	16 bits (15 bits + sign)
DAC resolution	13 Bit
Process data update	< 1 ms
Voltage output signal	0 V ... 10 V
	-10 V ... 10 V
Load/output load voltage output	> 2 k $\Omega$
Precision	typ. 0.02 % (of output range final value)
Permissible cable length	max. 500 m (The specifications refer to nominal operation after complying with installation instructions. The specifications refer to the following reference cable type: Shielded power station cable: LiYCY; 2 x 2 x 0,5 mm <sup>2</sup> ; VDE0812)

#### Electrical isolation

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.

#### Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

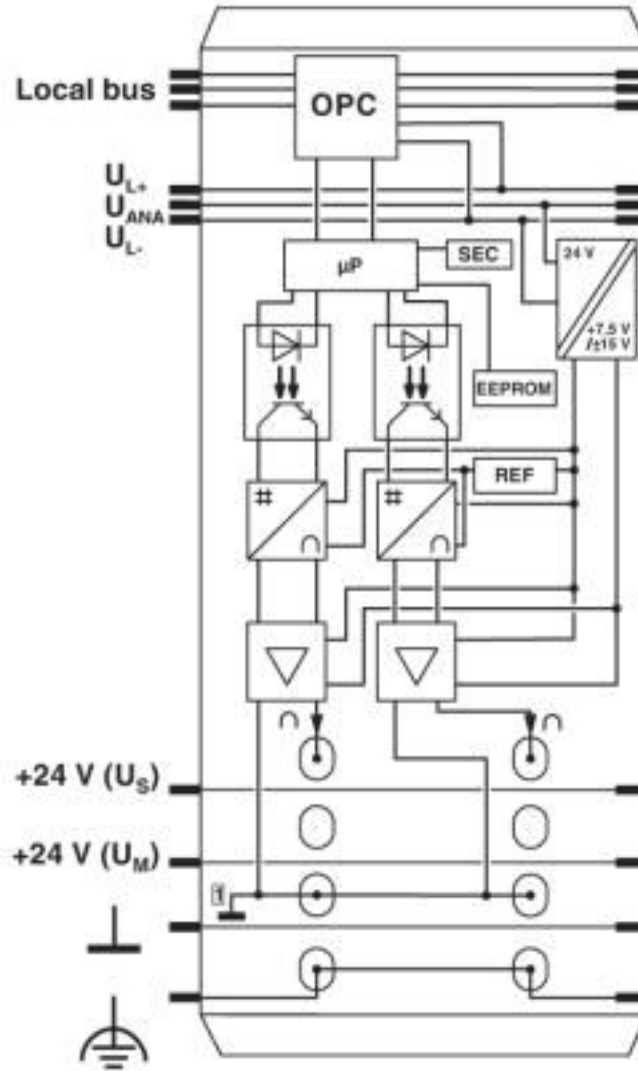
#### Environmental Product Compliance

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

### Drawings

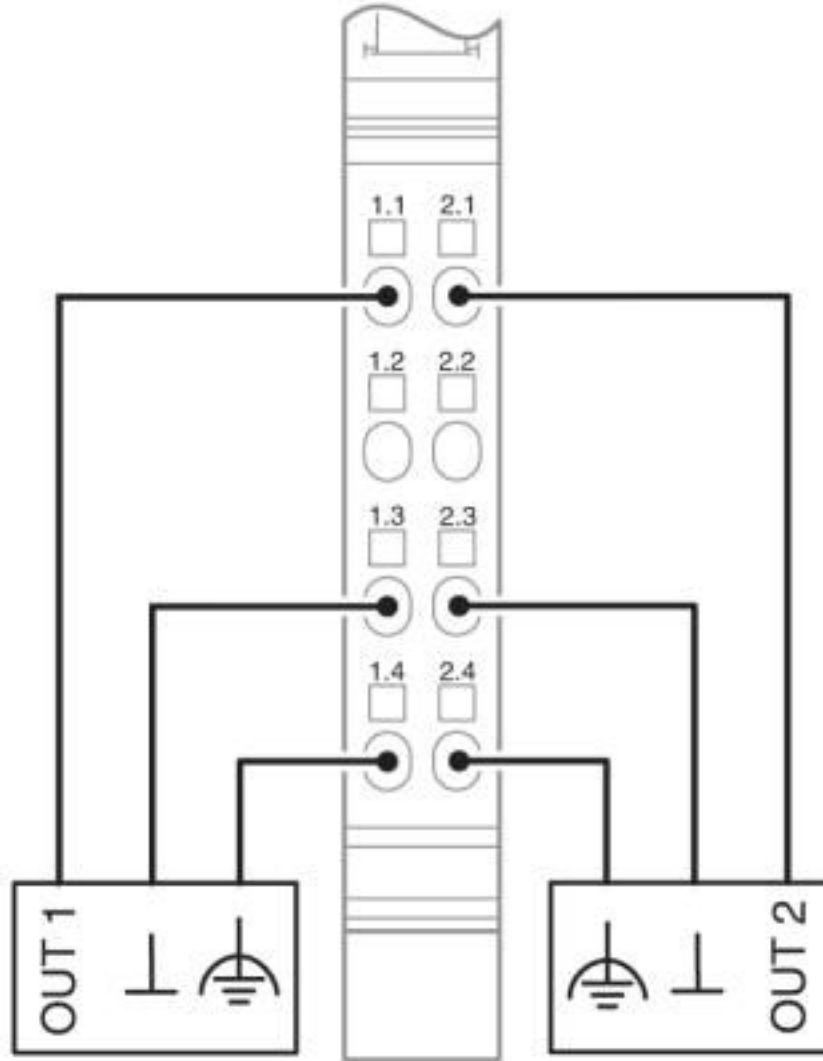
# Inline terminal - IB IL AO 2/U/BP-PAC - 2861467

Block diagram



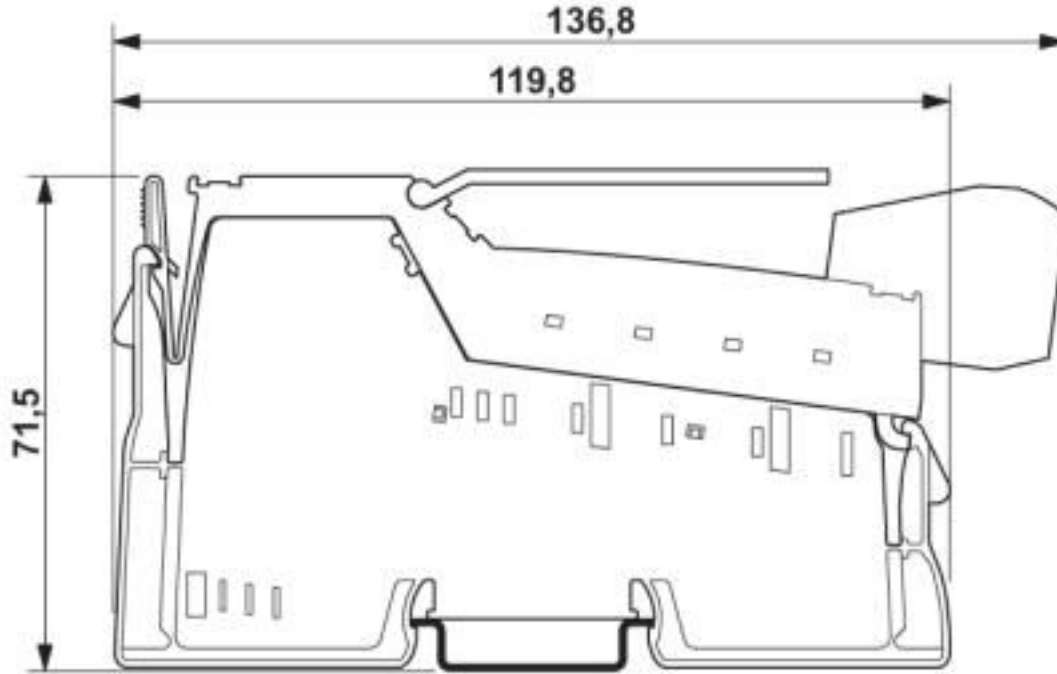
# Inline terminal - IB IL AO 2/U/BP-PAC - 2861467

Connection diagram



# Inline terminal - IB IL AO 2/U/BP-PAC - 2861467

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 10.0.1	27242601
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	27242601
eCl@ss 8.0	27242601
eCl@ss 9.0	27242601

### ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596
ETIM 6.0	EC001596
ETIM 7.0	EC001596

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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 Recognized / EAC

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAA00002CU
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BSH			Anwenderhinweis
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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
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LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	08/20033
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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 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
EAC			EAC-Zulassung

### Accessories

#### Accessories

#### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



#### Plug

Inline shield connector - IB IL SCN 6-SHIELD-TWIN - 2740245



Inline shield connector



## Inline terminal - IB IL AO 2/U/BP-PAC - 2861467

### Accessories

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: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

