

<https://www.phoenixcontact.com/gb/products/2863083>

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

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Inline, Analog output terminal, Analog outputs: 2, 0 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields


### Product Description

The terminal is designed for use within an Inline station. It is used to output analog current and voltage signals. The signals are available with a 16-bit resolution.

### Your advantages

- 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
GTIN	 4 017918 917104
GTIN	4017918917104
Weight per Piece (excluding packing)	125.000 g
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
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#### Dimensions

Width	48.8 mm
Height	135 mm
Depth	71.5 mm

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

### Technical data

#### 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

Mounting type	DIN rail
Color	green
Net weight	125 g

#### 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. 36 mA
	max. 45 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. 75 mA
	max. 95 mA

#### Analog outputs

Number of outputs	2
Connection method	Spring-cage connection with direct connector-in method
Connection technology	2-wire
Note regarding the connection technology	shielded
Output name	Analog outputs
D/A conversion time	< 100 $\mu$ s
D/A converter 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

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### Technical data

#### Analog outputs

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, current range)
	typ. 0.008 % (of output range final value, voltage range)

#### 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)

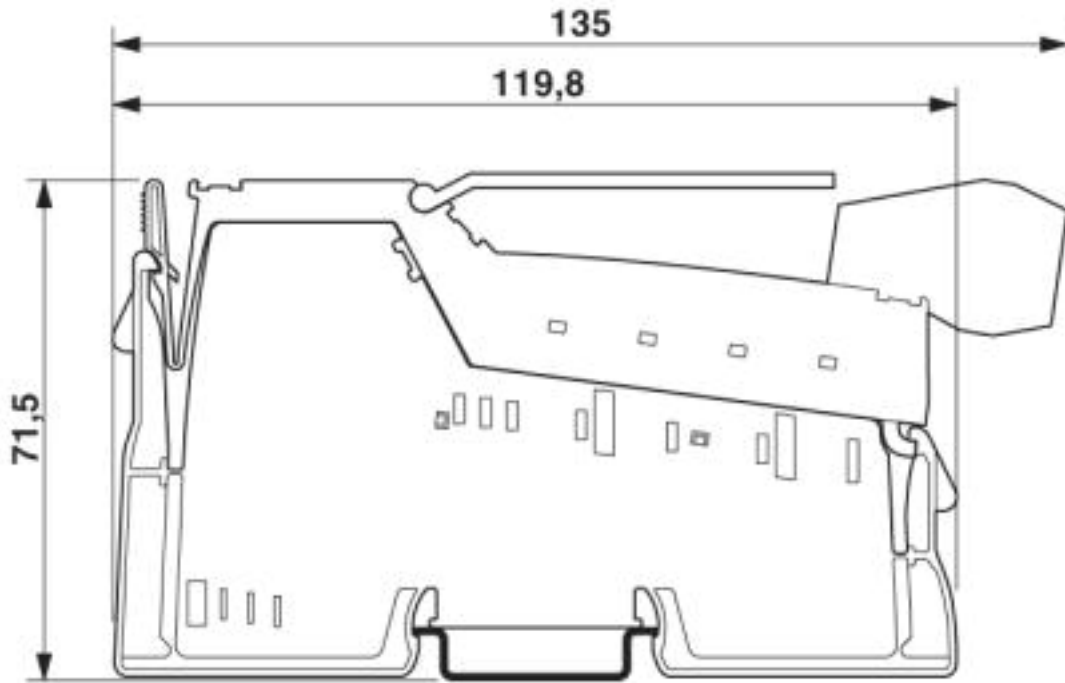
#### Environmental Product Compliance

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

### Drawings

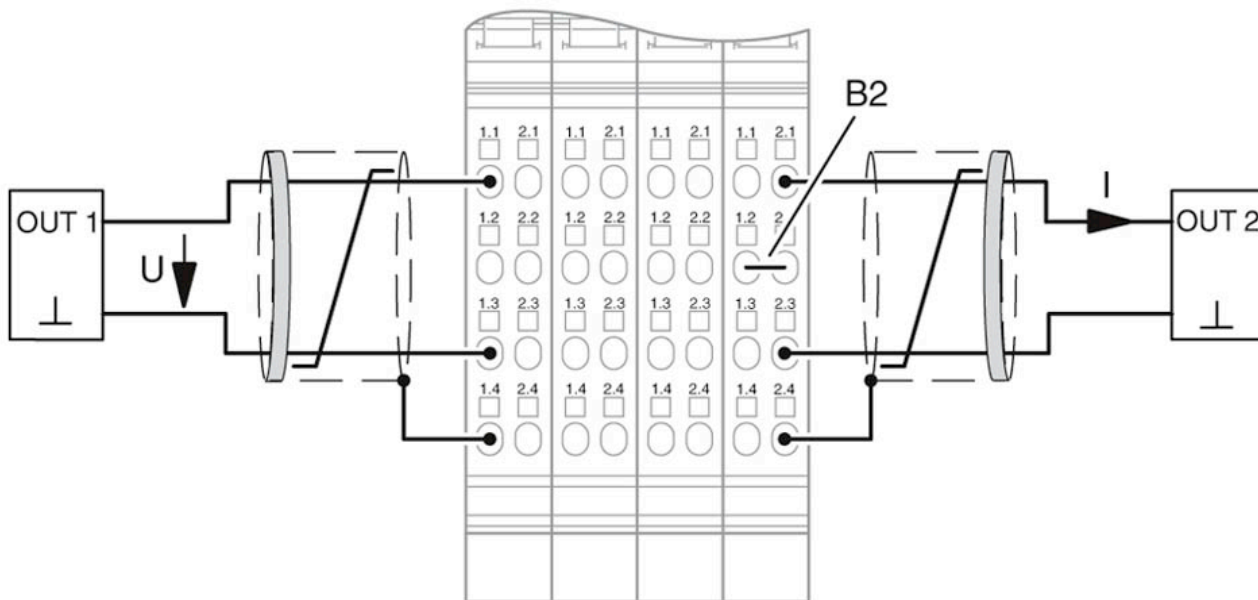
# Inline terminal - IB IL AO 2/SF-PAC - 2863083

Dimensional drawing



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

Connection diagram



## Classifications

eCl@ss

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

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

### Classifications

#### eCl@ss

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

#### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602

### Approvals

#### Approvals

##### Approvals

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

##### Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed

#### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAA00000BN
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BSH		<a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>	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>	20977/B1 BV
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### Approvals

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
BSH		<a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>	658
RINA		<a href="http://www.rina.org/en">http://www.rina.org/en</a>	ELE183315XG
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
cUL 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
cULus Recognized			

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