

Inline terminal - IB IL AO 1/SF-PAC - 2861315

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Inline analog output terminal, complete with accessories (connector plug and labeling field), 1 output, 0 - 20 mA, 4 - 20 mA, 0 - 10 V, 2-wire connection technology

The illustration shows the version IB IL AO 2/SF-PAC

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)	182.4 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

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Technical data

Dimensions

Width	24.4 mm
Height	135 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

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
Net weight	126 g
Note on weight specifications	with connectors
Operating mode	Process data mode with one word
Diagnostics messages	Failure of or insufficient communications power U_L I/O error message sent to the bus coupler

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	typ. 30 mA
	max. 40 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	typ. 50 mA
	max. 65 mA
Power consumption	typ. 1.425 W (total)

Analog outputs

Number of outputs	1
Connection method	2-wire (shielded)

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Technical data

Analog outputs

Output name	Analog outputs
D/A resolution	16 bit
Type of protection	Transient protection of outputs
Representation of output values	16 bits
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 Ω
Voltage output signal	0 V ... 10 V
Load/output load voltage output	> 2 kΩ
Precision	typ. 0.8 % (of output range final value)
	typ. 0.5 % (of output range final value)

Standards and Regulations

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

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

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Classifications

UNSPSC

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

Approvals

Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / ATEX / cULus Listed

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

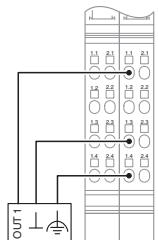
EAC

cULus Recognized 

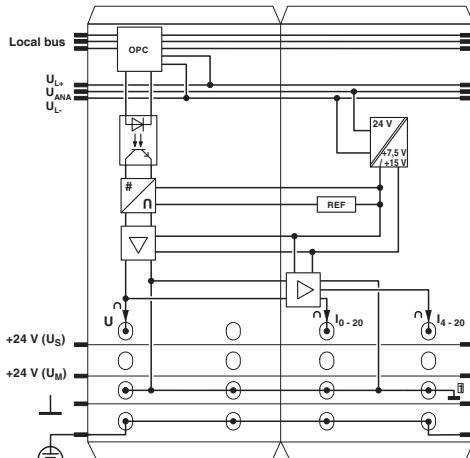
Drawings

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Connection diagram



Block diagram



Dimensional drawing

