

Inline terminal - IB IL AO 1/SF-XC-PAC - 2701219

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

Product Features

- Short update time of < 1 ms
- Short-circuit-proof current outputs
- Bipolar outputs
- Measured value acquisition with 16-bit resolution
- Can be used under extreme ambient conditions
- Extended temperature range of -40°C ... +70°C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- Coated PCBs



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	180.0 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	24.4 mm
Height	135 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

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Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C (Standard)
	-40 °C ... 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
Ambient temperature (storage/transport)	-40 °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)
Output name	Analog outputs
D/A resolution	16 bit
Type of protection	Transient protection of outputs
Representation of output values	16 bits

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Technical data

Analog outputs

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 k Ω
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 3.0	EC001596
ETIM 4.0	EC001599
ETIM 5.0	EC001596

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015



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Classifications

UNSPSC

UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

cULus Recognized 

Accessories

Accessories

Connector set

Inline terminal - IB IL AO 1/SF-XC-PAC - 2701219

Accessories

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



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

Marker pen - B-STIFT - 1051993



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

Plug

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Accessories

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



Inline shield connector

Inline connector - IB IL SCN-8 - 2726337



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

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



Inline connector, colored

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

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

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Accessories

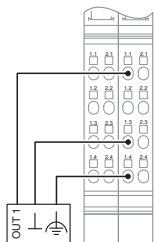
Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618

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

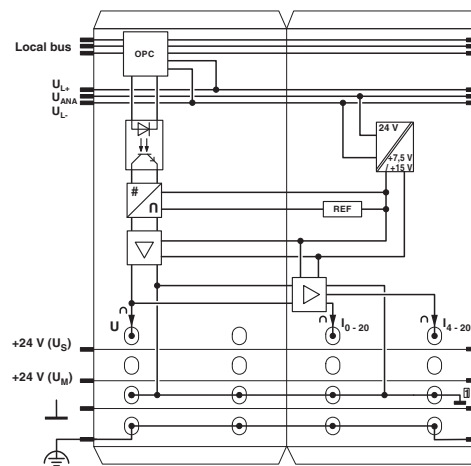


Drawings

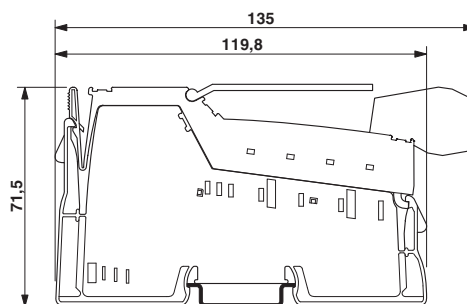
Connection diagram



Block diagram



Dimensional drawing



Mouser Electronics

Authorized Distributor

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