

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

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Inline XC, Analog output terminal, Analog output: 1, 0 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, Extreme conditions version, 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.

Why buy this product

- ✓ 1 analog output for the connection of either voltage or current signals
- ✓ Connection of actuators in 2-wire technology
- ✓ Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA
- ✓ Voltage range: 0 V ... 10 V
- ✓ Process data update including conversion time of the digital/analog converter < 1 ms
- ✓ 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

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 729468
GTIN	4046356729468
Weight per Piece (excluding packing)	180.000 g
Custom tariff number	85389091
Country of origin	Germany

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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

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 kbps
Transmission physics	Copper

Inline potentials

Designation	Communications power U_L
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	typ. 30 mA
	max. 40 mA
Designation	Supply of analog modules U_{ANA}

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Technical data

Inline potentials

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. 50 mA
	max. 65 mA
Power consumption	typ. 1.425 W (total)

Analog outputs

Number of outputs	1
Connection technology	2-wire
Note regarding the connection technology	shielded
Output name	Analog output
D/A resolution	16 bit
Type of protection	Transient protection of outputs
Representation of output values	16-bit straight binary
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, current range)
	typ. 0.5 % (of output range final value, voltage range)
	typ. 0.3 % (of output range final value, voltage range 0 V ... 10 V)

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

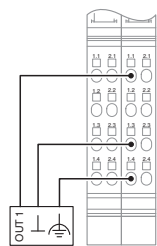
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

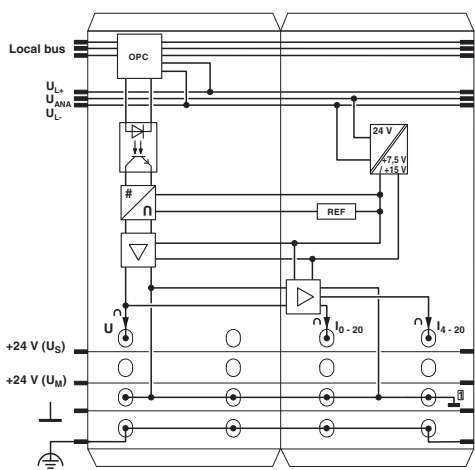
Drawings

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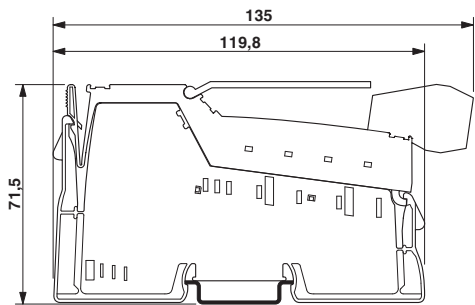
Connection diagram



Block diagram



Dimensional drawing



Classifications

eCI@ss

eCI@ss 4.0	27250303
eCI@ss 4.1	27250303
eCI@ss 5.0	27250303
eCI@ss 5.1	27242601
eCI@ss 6.0	27242601
eCI@ss 7.0	27242601
eCI@ss 8.0	27242601
eCI@ss 9.0	27242601

ETIM

ETIM 3.0	EC001596
ETIM 4.0	EC001599

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Classifications

ETIM

ETIM 5.0	EC001596
ETIM 6.0	EC001596

UNSPSC

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

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	
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Accessories

Accessories

Connector set

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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: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm

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



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 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: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5 x 5.5 mm

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