

IB IL AO 1/SF-PAC - Analog module



2861315
<https://www.phoenixcontact.com/us/products/2861315>

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Inline, Analog output terminal, Analog output: 1, 0 V ... 10 V, 0 mA ... 20 mA, 4 mA ... 20 mA, connection technology: 2-conductor, 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.

Your advantages

- 1 analog output for the connection of either voltage or current signals
- Connection of actuators in 2-conductor 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

Commercial data

Item number	2861315
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI142
Catalog page	Page 142 (C-6-2019)
GTIN	4017918894252
Weight per piece (including packing)	169.4 g
Weight per piece (excluding packing)	126 g
Customs tariff number	85389091
Country of origin	DE

IB IL AO 1/SF-PAC - Analog module

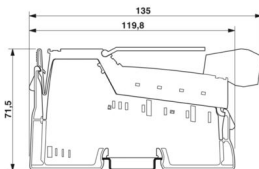


2861315

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Technical data

Dimensions

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

Notes

Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

Interfaces

Inline local bus	
Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module	
ID code (dec.)	125
ID code (hex)	7D
Length code (hex)	01
Length code (dec)	01
Process data channel	16 bit
Input address area	0 Byte
Output address area	2 Byte
Register length	16 bit
Required parameter data	4 Byte
Required configuration data	4 Byte

Output data

Analog	
Output name	Analog output
Connection technology	2-conductor

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2861315

<https://www.phoenixcontact.com/us/products/2861315>

Note regarding the connection technology	shielded
Number of outputs	1
D/A converter resolution	16 bit
Protective circuit	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

Product properties

Type	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
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

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Maximum power dissipation for nominal condition	2.52 W
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Potentials

Power consumption	typ. 1.425 W (total) max. 1.86 W (total)
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 40 mA typ. 30 mA

Potentials: 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 draw	max. 65 mA typ. 50 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: 7.5 V supply (bus logic), 24 V supply U_{ANA} / I/O	500 V AC, 50 Hz, 1 min.
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2861315

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Test voltage: 7.5 V supply (bus logic), 24 V supply U_{ANA} / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: I/O/functional ground	500 V AC, 50 Hz, 1 min.

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
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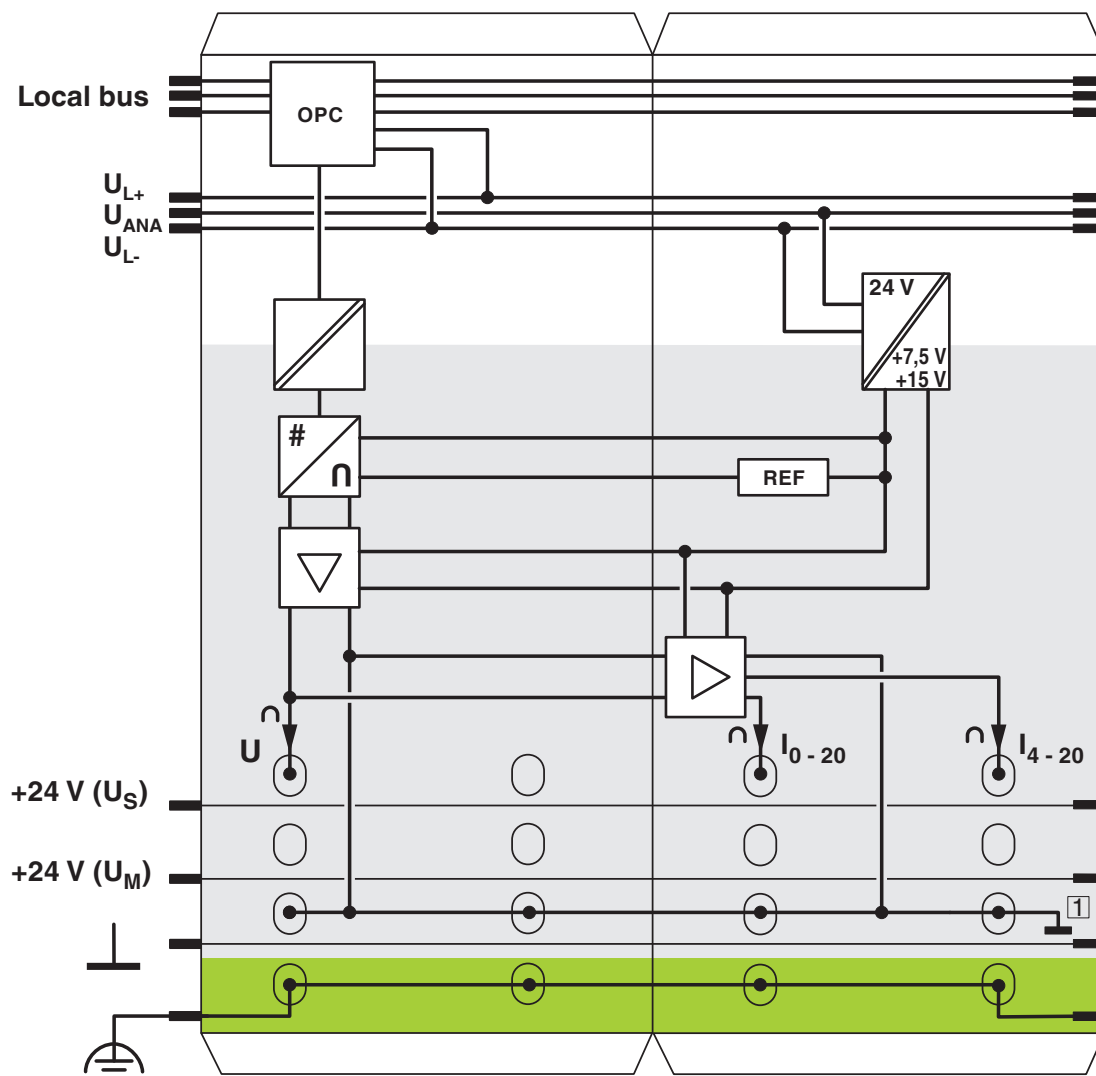


Drawings

Dimensional drawing



Block diagram



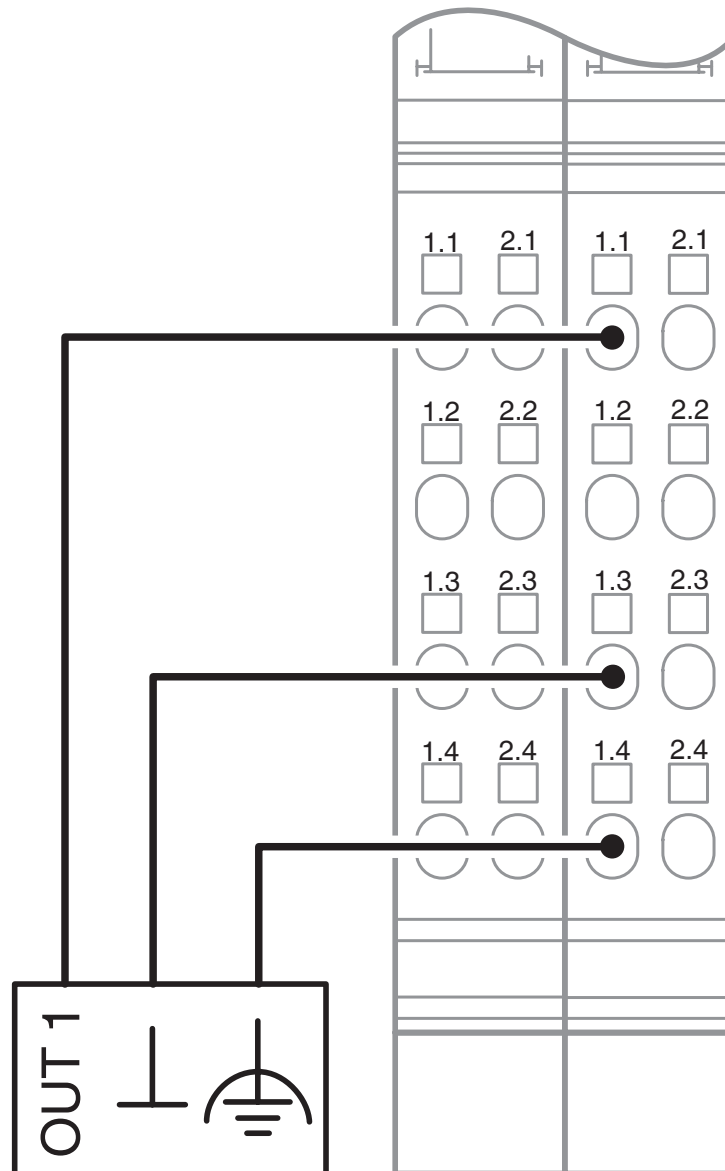
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Connection diagram



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Approvals

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UL Recognized
Approval ID: FILE E 140324



EAC
Approval ID: TR TS_D_01921-19

UAE-RoHS
Approval ID: 22-04-13090



cUL Listed
Approval ID: FILE E 199827



UL Listed
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Classifications

ECLASS

ECLASS-11.0	27242601
ECLASS-12.0	27242601
ECLASS-13.0	27242601

ETIM

ETIM 9.0	EC001596
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
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