

IB IL AO 2/SF-PAC - Analog module

2863083

<https://www.phoenixcontact.com/us/products/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 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. The signals are available with a 16-bit resolution.

Your advantages

- 2 analog output channels
- Connection of actuators in 2-conductor technology
- Voltage range: 0 V ... 10 V
- Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA
- Output values can be represented in two different formats
- Behavior of the outputs in the event of an error can be configured
- Process data update including conversion time of the digital/analog converter < 1 ms

Commercial data

Item number	2863083
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI142
Catalog page	Page 142 (C-6-2019)
GTIN	4017918917104
Weight per piece (including packing)	234.6 g
Weight per piece (excluding packing)	190 g
Customs tariff number	85389099
Country of origin	DE

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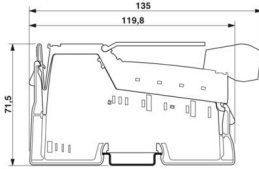
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Technical data

Dimensions

Dimensional drawing	
Width	48.8 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.)	91
ID code (hex)	5B
Length code (hex)	02
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Register length	32 bit
Required parameter data	6 Byte
Required configuration data	5 Byte

Output data

Analog	
Output name	Analog outputs
Connection technology	2-conductor

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Note regarding the connection technology	shielded
Number of outputs	2
D/A converter resolution	16 bit
Protective circuit	Transient protection of outputs
	Short-circuit protection of outputs
Representation of output values	16 bits (15 bits + sign)
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	$\leq 500 \Omega$
Voltage output signal	0 V ... 10 V
Load/output load voltage output	$\geq 2 \text{ k}\Omega$

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 two words
Diagnostics messages	I/O supply failure 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	3.36 W
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Potentials

Power consumption	typ. 2.1 W (entire device)
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 45 mA
	typ. 36 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. 95 mA
	typ. 75 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.
Test voltage: 7.5 V supply (bus logic), 24 V supply U_{ANA} / functional ground	500 V AC, 50 Hz, 1 min.

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Test voltage: 24 V supply (I/O) / functional ground

500 V AC, 50 Hz, 1 min.

Connection data

Connection technology

Connection name

Inline connector

Conductor connection

Connection method

Spring-cage connection

Conductor cross section rigid

0.08 mm² ... 1.5 mm²

Conductor cross section flexible

0.08 mm² ... 1.5 mm²

Conductor cross section AWG

28 ... 16

Stripping length

8 mm

Inline connector

Connection method

Spring-cage connection

Conductor cross section, rigid

0.08 mm² ... 1.5 mm²

Conductor cross section, flexible

0.08 mm² ... 1.5 mm²

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)

Mounting

Mounting type

DIN rail mounting

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