

AXL SE AI4 I 0-20 - Analog module

1296378

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Axioline Smart Elements, Analog input module, Analog inputs: 4, 0 mA ... 20 mA, connection technology: 2-conductor, degree of protection: IP20

Product Description

You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element detects analog current signals.

Your advantages

- 4 analog input channels
- Connection of sensors in 2-conductor technology
- Current range: 0 mA ... 20 mA
- Data format: standardized representation
- Resolution: 12 bits
- Device rating plate stored

Commercial Data

Item number	1296378
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	DRIB41
GTIN	4063151534301
Weight per Piece (including packing)	36.87 g
Weight per Piece (excluding packing)	34.17 g
Country of origin	DE

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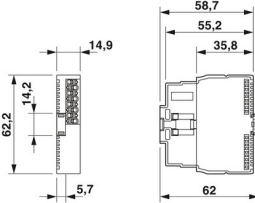
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Technical Data

Dimensions

Dimensional drawing		
Width		14.9 mm
Height		62.2 mm
Depth		62 mm

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Interfaces

Smart Element interface

Number of interfaces	1
Connection method	Card edge connector
Transmission speed	See system in which you use the Smart Element.
Start time until ready to operate	< 1000 ms

System properties

Module

ID code (hex)	none
Process data channel	64 bit
Input address area	8 Byte
Output address area	8 Byte
Required parameter data	24 Byte
Required configuration data	6 Byte

Input data

Analog

Input name	Analog inputs
Description of the input	Single-ended inputs, current
Number of inputs	4
A/D converter resolution	12 bit
Connection method	Push-in technology

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Connection technology	2-conductor
Note regarding the connection technology	shielded, twisted pair
Current input signal	0 mA ... 20 mA
Input resistance current input	max. 60 Ω
Data formats	Standardized representation
Measured value representation	16 bits
Protective circuit	Transient protection

Product properties

Type	modular
Product type	I/O component
Product family	Axioline Smart Elements
Mounting position	See the system in which the Smart Element is used.

Insulation characteristics

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

Electrical properties

Potentials: Communications power supply of the Smart Elements (U_{SE})

Supply voltage	using card edge connectors
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Potentials: I/O supply (U_P)

Supply voltage	24 V DC (using card edge connectors)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 20 mA
	typ. 15 mA
Current consumption	min. 12 mA (without connected peripherals)
Power consumption	max. 480 mW
	min. 288 mW
Protective circuit	Surge protection; See the system in which the Smart Element is used.
	Reverse polarity protection; Polarity protection diode

Connection data

Connection technology

Connection name	I/O
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline Smart Elements" user manual.

Conductor connection

Connection method	Push-in connection
Conductor cross section rigid	0.25 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.25 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16