

AXL SE AI4 U -10-10 - Analog module



1487836

<https://www.phoenixcontact.com/au/products/1487836>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Axioline Smart Elements, Analog input module, Analog inputs: 4, -10 V ... 10 V, 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 voltage signals.

Your advantages

- 4 analog input channels
- Connection of sensors in 2-conductor technology
- Voltage range: -10 V ... 10 V
- Data format: standardized representation
- Resolution: 12 bits
- Substitute value behavior can be parameterized for each input
- Device rating plate stored

Commercial data

Item number	1487836
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRIB41
Product key	DRIB41
GTIN	4063151931650
Weight per piece (including packing)	36.7 g
Weight per piece (excluding packing)	34.2 g
Customs tariff number	85389091
Country of origin	DE

AXL SE AI4 U -10-10 - Analog module



1487836

<https://www.phoenixcontact.com/au/products/1487836>

Technical data

Dimensions

Dimensional drawing		
Width		14.9 mm
Height		62.2 mm
Depth		62 mm

Notes

Note on application

Note on application	Only for industrial use
---------------------	-------------------------

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	0 Byte
Required parameter data	15 Byte
Required configuration data	6 Byte

Input data

Analog:

Input name	Analog inputs
Description of the input	Single-ended inputs, voltage
Number of inputs	4
A/D converter resolution	12 bit
Connection method	Push-in technology
Connection technology	2-conductor

AXL SE AI4 U -10-10 - Analog module



1487836

<https://www.phoenixcontact.com/au/products/1487836>

Note regarding the connection technology	shielded, twisted pair
Voltage input signal	-10 V ... 10 V
Input resistance of voltage input	> 100 kΩ
Data formats	Standardized representation
Measured value representation	16 bits
Protective circuit	Transient protection

Product properties

Product type	I/O component
Product family	Axioline Smart Elements
Type	modular
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

Maximum power dissipation for nominal condition	0.55 W
---	--------

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

Supply voltage	using card edge connectors
----------------	----------------------------

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)
Protective circuit	Surge protection; See the system in which the Smart Element is used. Reverse polarity protection; Polarity protection diode

Electrical isolation/isolation of the voltage ranges

Test voltage: Communications supply / 24 V supply (I/O)	500 V AC, 50 Hz, 1 min
Test voltage: Communications supply / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Logic supply/analog inputs	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / analog inputs	500 V AC, 50 Hz, 1 min
Test voltage: Analog inputs / functional ground	500 V AC, 50 Hz, 1 min

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
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 1.5 mm ²
Stripping length	8 mm

I/O

Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axoline Smart Elements" user manual.
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
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °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)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Standards and regulations

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

Mounting

Mounting type	Smart Element slot
Mounting position	See the system in which the Smart Element is used.

AXL SE AI4 U -10-10 - Analog module

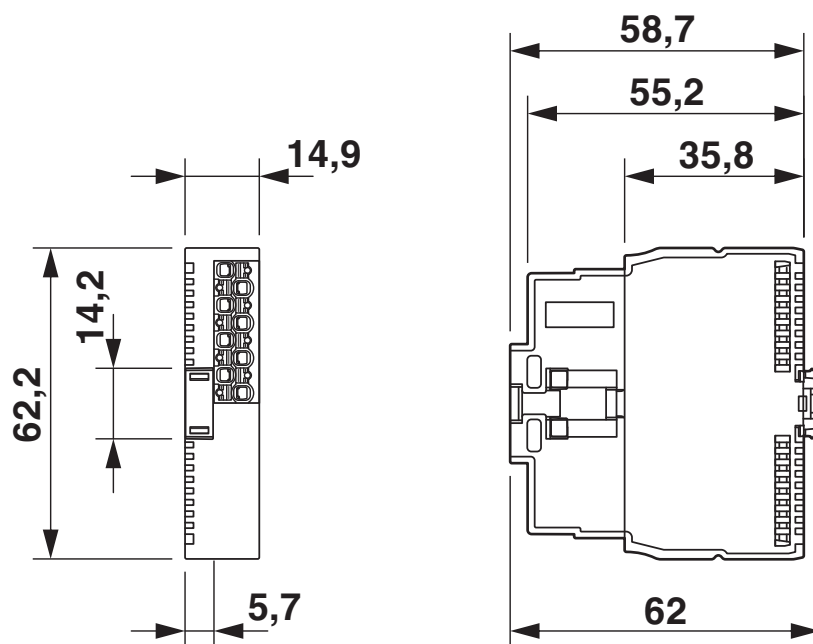
1487836

<https://www.phoenixcontact.com/au/products/1487836>



Drawings

Dimensional drawing



Dimensions

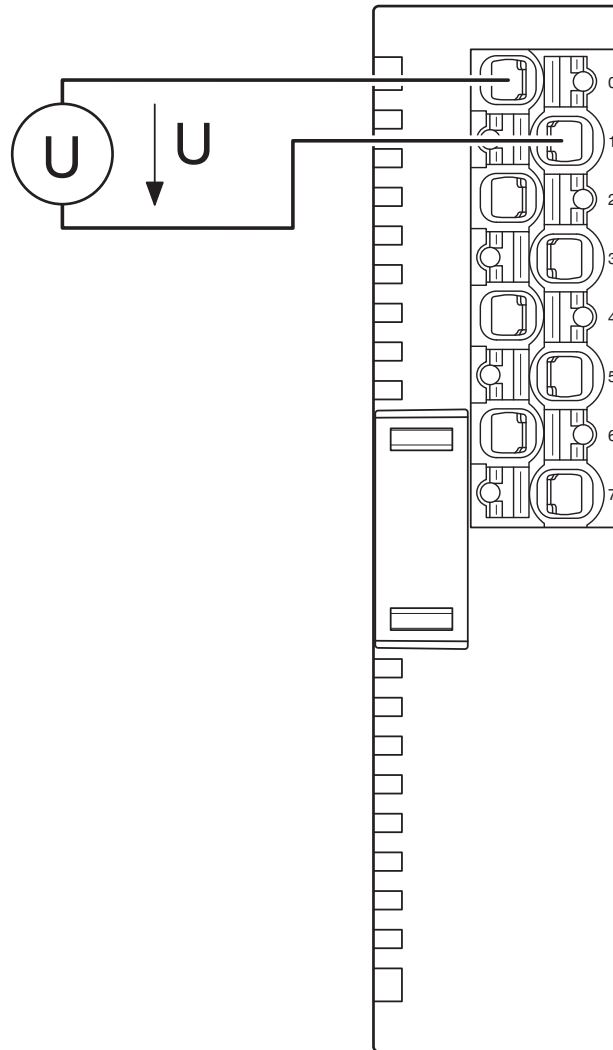
AXL SE AI4 U -10-10 - Analog module

1487836

<https://www.phoenixcontact.com/au/products/1487836>



Connection diagram



Connection example

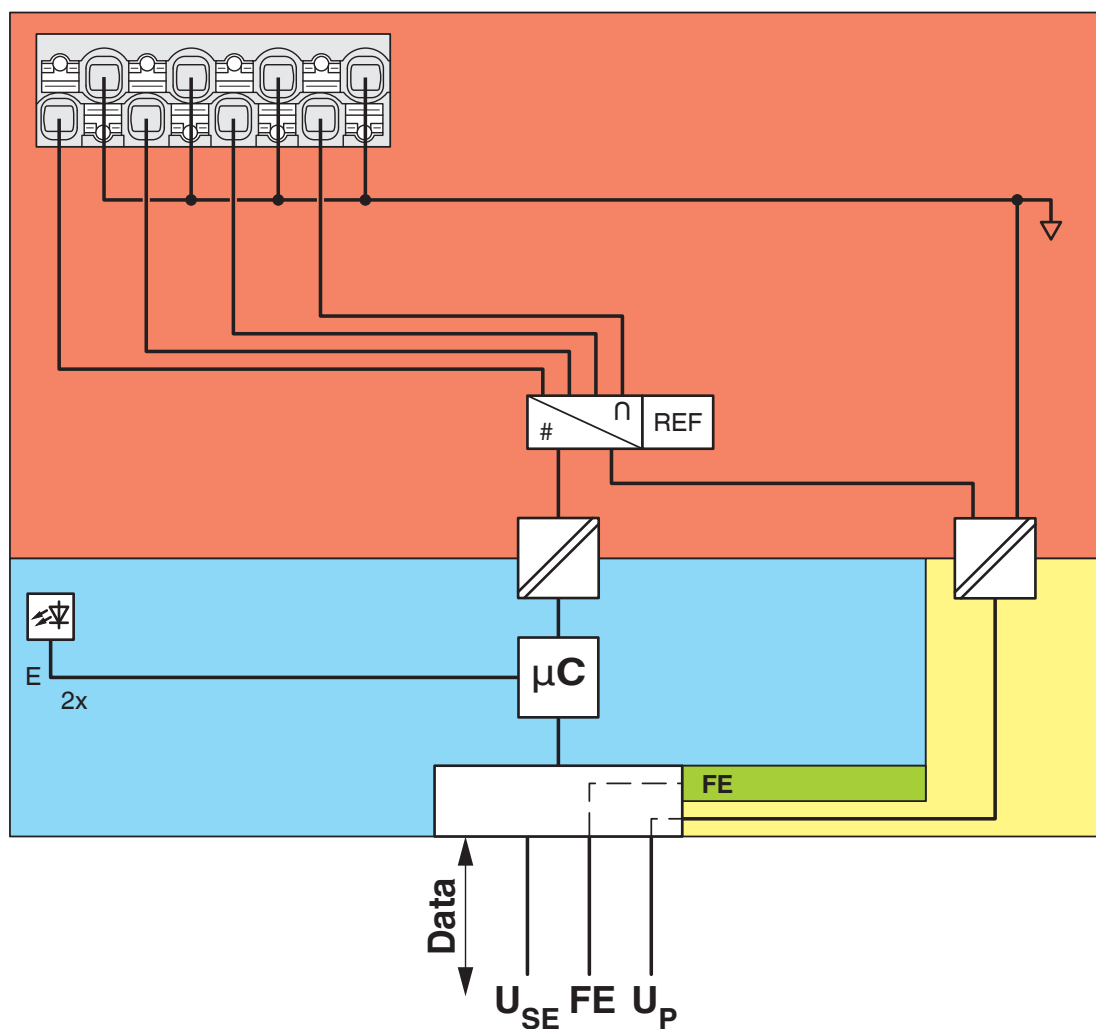
AXL SE AI4 U -10-10 - Analog module

1487836

<https://www.phoenixcontact.com/au/products/1487836>



Block diagram



Internal wiring of the terminal points

AXL SE AI4 U -10-10 - Analog module



1487836

<https://www.phoenixcontact.com/au/products/1487836>

Classifications

ECLASS

ECLASS-13.0	27242601
-------------	----------

ETIM

ETIM 9.0	EC001596
----------	----------

AXL SE AI4 U -10-10 - Analog module



1487836
<https://www.phoenixcontact.com/au/products/1487836>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I, 7(c)-II
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd
Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au