

AXL SE PD16 24V - Potential distributors



1337223

<https://www.phoenixcontact.com/in/products/1337223>

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Axioline Smart Elements, Potential distribution module, 24 V DC, degree of protection: IP20



Product description

You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element provides the 24 V sensor supplies U_{p1} and U_{p2} at eight terminal points each. The Smart Element thus enables you to supply sensors with 24 V DC, whose signal lines are connected to the AXL SE DI16/1 Smart Element, for example. You can also supply analog sensors with current signals using Smart Elements for potential distribution. Either use the AXL SE PD 24V and AXL SE PD16 GND Smart Elements or the AXL SE PD8/8 24V/GND Smart Element for this purpose.

Your advantages

- 16 terminal points, connected to the 24 V I/O supply $U_{sub>P</sub>}$
- Maximum permissible load current of the module: 4 A (2 A for each group of a max. 8 sensors)

Commercial data

Item number	1337223
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	DRIBZ4
GTIN	4063151638542
Weight per piece (including packing)	35.5 g
Weight per piece (excluding packing)	30 g
Customs tariff number	85389099
Country of origin	DE

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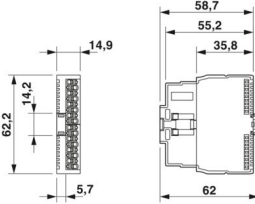


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Technical data

Dimensions

Dimensional drawing		
Width		14.9 mm
Height		62.2 mm
Depth		62 mm

Notes

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.

System properties

Module	
ID code (hex)	none
Process data channel	0 bit
Input address area	0 Byte (All systems except PROFIBUS)
	1 Byte (PROFIBUS)
Output address area	0 Byte
Required parameter data	1 Byte
Required configuration data	6 Byte

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.
Special properties	24 V DC

Insulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)

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Pollution degree	2 (IEC 60664-1, EN 60664-1)
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Electrical properties

Maximum power dissipation for nominal condition	1.1 W
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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. 4 A (2 x 2 A)
Current consumption	min. 10 mA (without connected peripherals)
Protective circuit	Surge protection; See the system in which the Smart Element is used. Reverse polarity protection; Polarity protection diode

Supply:

Designation	Sensor supply (U_{P1} , U_{P2})
Supply voltage	24 V DC (from U_P)

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: 24 V supply (I/O) / 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 "Axioline 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

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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 (not assessed by UL)
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

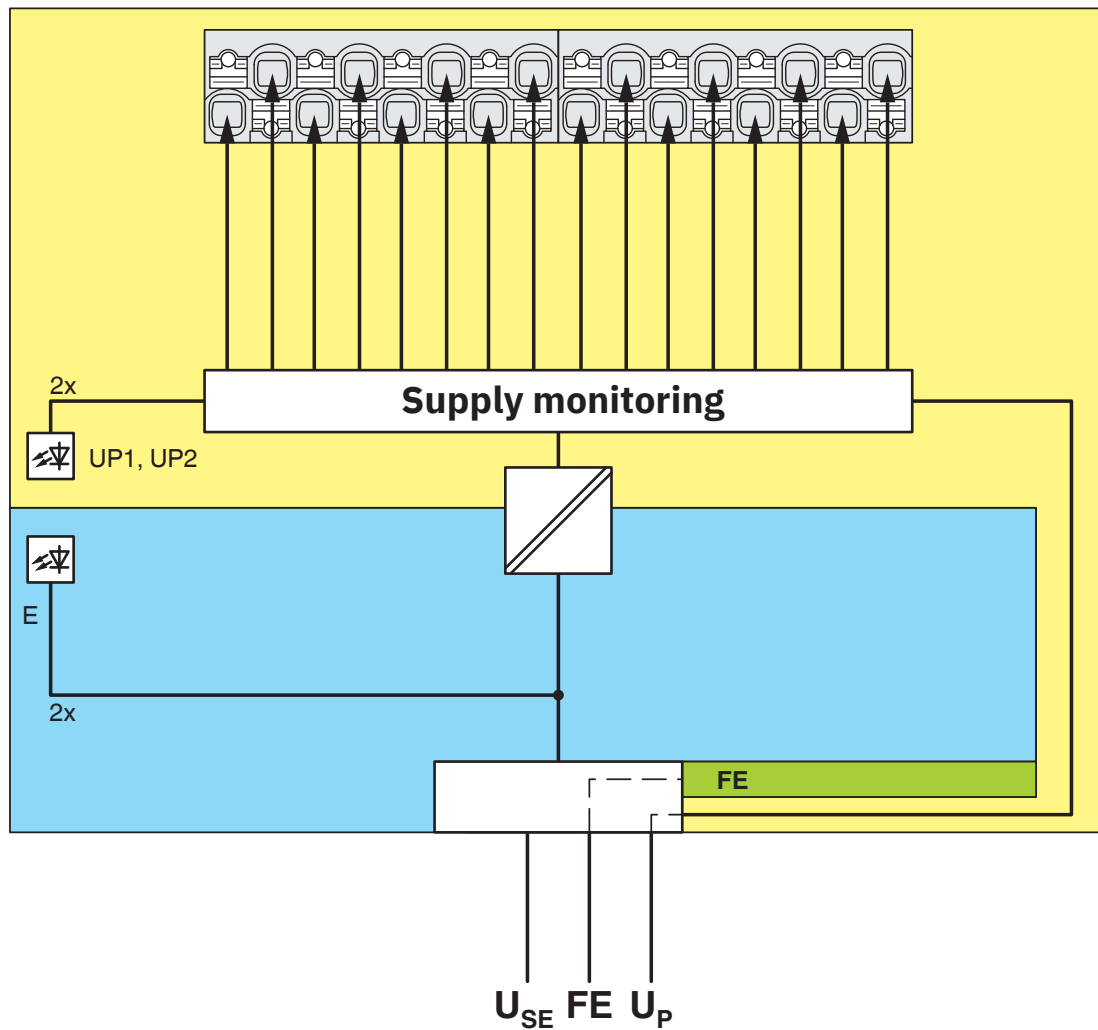
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

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

Drawings

Block diagram



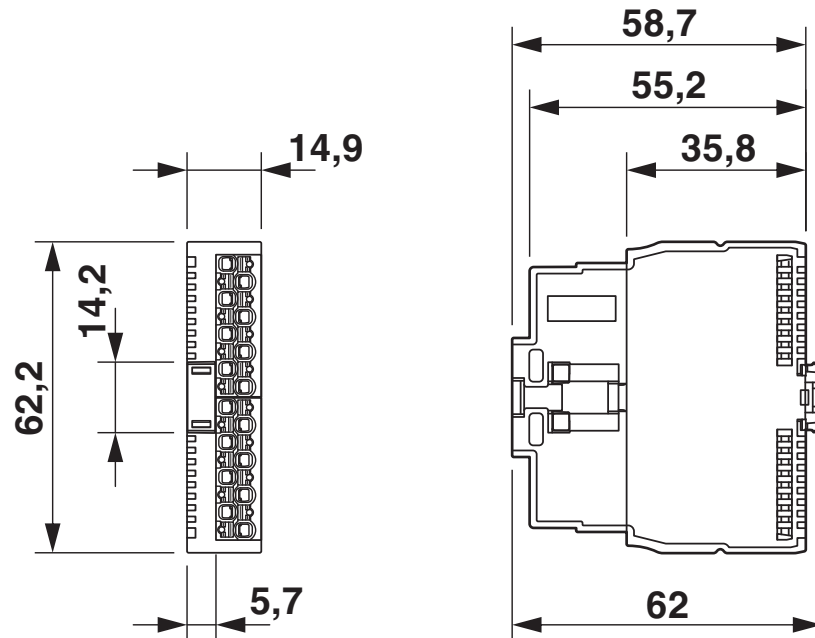
Basic circuit diagram

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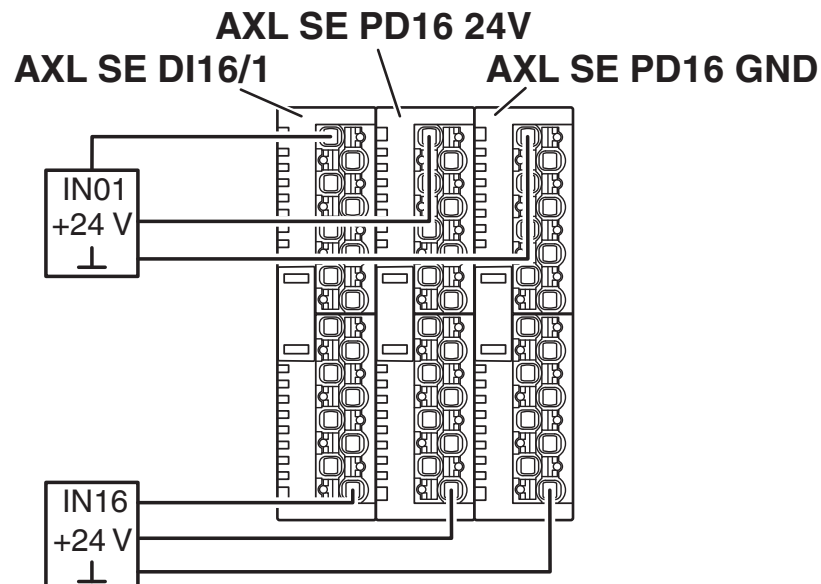
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Dimensional drawing



Dimensions

Connection diagram



Connection example

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Approvals

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EAC

Approval ID: TR_TS_D_01831-19



cULus Listed

Approval ID: E238705

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Classifications

ECLASS

ECLASS-11.0	27242610
ECLASS-12.0	27242610
ECLASS-13.0	27242610

ETIM

ETIM 9.0	EC001600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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)
SCIP	33dfcaa0-7980-4a17-8884-332c9dcedcaf

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Mandatory accessories

AXL F BP SE4 - Module carrier

1088135

<https://www.phoenixcontact.com/in/products/1088135>

Axioline F, Backplane, 4 slots for Axioline Smart Elements, transmission speed in the local bus: 100 Mbps, degree of protection: IP20



AXL F BP SE6 - Module carrier

1088136

<https://www.phoenixcontact.com/in/products/1088136>

Axioline F, Backplane, 6 slots for Axioline Smart Elements, transmission speed in the local bus: 100 Mbps, degree of protection: IP20



Accessories

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SZS 0,4X2,5 VDE - Screwdriver

1205037

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Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

CRIMPFOX 6 - Crimping pliers

1212034

<https://www.phoenixcontact.com/in/products/1212034>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

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CRIMPFOX DUO 10 - Crimping pliers

1031721

<https://www.phoenixcontact.com/in/products/1031721>



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, standards/specifications: DIN 46228-1, DIN 46228-4, UL 486F, form A, E, F, min. cross section: 0.14 mm², max. cross section: 10 mm², for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, rotating die, lateral and frontal insertion, compression: Trapezoidal crimp, weight 305 g, black/green

CRIMPFOX 10T-F - Crimping pliers

1134913

<https://www.phoenixcontact.com/in/products/1134913>



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, standards/specifications: DIN 46228-1, DIN 46228-4, min. cross section: 0.14 mm², max. cross section: 10 mm², For TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, frontal insertion, compression: Trapezoidal crimp, weight 302 g, black

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MM-TML (EX4,2)R C1 TR/BK - Label

0803979

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Label, Roll, transparent/black, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, Number of individual labels: 1, text field height: 8000 mm, text field width: 4.2 mm

SK 5,0 WH:REEL - Marker strip

0805221

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Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 10, text field height: 5 mm, text field width: 90000 mm

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UM6M-TM (5X12) - Marker for terminal blocks

0830928

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Marker for terminal blocks, Strip, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, for terminal block width: 5 mm, Number of individual labels: 24, text field height: 12 mm, text field width: 5 mm

UCT6M-TM 5 - Marker for terminal blocks

0830756

<https://www.phoenixcontact.com/in/products/0830756>



Marker for terminal blocks, for marking ABB terminal blocks from the SNK series, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, THERMOMARK CARD 2.0, THERMOMARK PRIME, BLUEMARK ID, BLUEMARK ID COLOR, TOPMARK LASER, TOPMARK NEO, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 60, text field height: 11.3 mm, text field width: 4.17 mm

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