

AXL SE DOR2 W 230 - Relay module



1105562

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Axioline Smart Elements, Relay module, Relay outputs: 2 (floating), Changeover contact, 220 V DC, 230 V AC, degree of protection: IP20

Product description

You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element has two relay changeover contacts that are independent of each other and floating. You can install low-voltage and extra-low-voltage modules directly next to each other on one Axioline F backplane.

Your advantages

- 2 mono-stable relays
- Floating connections for 2 actuators
- Switching current per channel: 6 A, maximum
- Device rating plate stored

Commercial data

Item number	1105562
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR05
Product key	DRIB34
GTIN	4055626989013
Weight per piece (including packing)	44 g
Weight per piece (excluding packing)	42.95 g
Customs tariff number	85364900
Country of origin	DE

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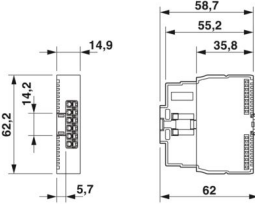


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Technical data

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.
Start time until ready to operate	< 500 ms

System properties

Module	
ID code (hex)	none
Process data channel	8 bit
Input address area	0 Byte
Output address area	1 Byte
Required parameter data	9 Byte
Required configuration data	6 Byte

Output data

Relay	
Number of outputs	2 (floating)
Connection method	Push-in connection
Connection technology	2-conductor
Contact switching type	Changeover contact
Switching current	max. 6 A (up to 250 V AC, cos phi = 0.75 ... 0.8)
	max. 6 A (up to 30 V DC, N/O contact, general use)

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	max. 3 A (up to 30 V DC, N/C contact, general use)
	max. 580 mA (at 48 V DC)
	max. 250 mA (at 110 V DC)
	max. 125 mA (at 220 V DC)
	max. 220 mA DC (125 V DC, L/R ≤ 50 ms)
	max. 110 mA DC (250 V DC, L/R ≤ 50 ms)
Switching capacity	max. 1500 VA (AC applications up to 55°C, observe derating above that)
	max. 180 W (up to 30 V DC, N/O contact, general use)
	max. 90 W (up to 30 V DC, N/C contact, general use)
	max. 28 W (above 30 V DC)
	For further DC values, see DC load limit curve.
Switching capacity in accordance with IEC 60947-5-1	3 A (24 V (AC15))
	3 A (120 V (AC15))
	3 A (230 V (AC15))
	2 A (24 V (DC13), L/R = 100 ms)
	0.2 A (110 V (DC13), L/R = 44 ms)
	0.1 A (220 V (DC13), L/R = 44 ms)
Switching capacity in accordance with UL/CSA 61010-2-201	5 A (AC, B300, up to max. 55°C)
	1 A (DC, R300, up to max. 60°C)
Switching frequency	max. 6 (per minute)
Mechanical service life	20x 10 ⁶ cycles

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.

Data management status

Article revision	01
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Insulation characteristics

Overvoltage category	III (EN 61010-2-201/IEC 61010-2-201)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Maximum power dissipation for nominal condition	2 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	typ. 36 mA (18 mA per relay, all contacts floating)

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Protective circuit	Surge protection; See the system in which the Smart Element is used.
	Reverse polarity protection; parallel 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: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: Supply logic / relay contact	4 kV
Test voltage: 24 V supply (devices) / relay contact	4 kV
Test voltage: Relay contact / functional ground	4 kV

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.
	When selecting the cables, observe the permissible operating temperature in accordance with IEC or UL.

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 ... 0.75 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.
	When selecting the cables, observe the permissible operating temperature in accordance with IEC or UL.
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 ... 0.75 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
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Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa
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)

Mounting

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

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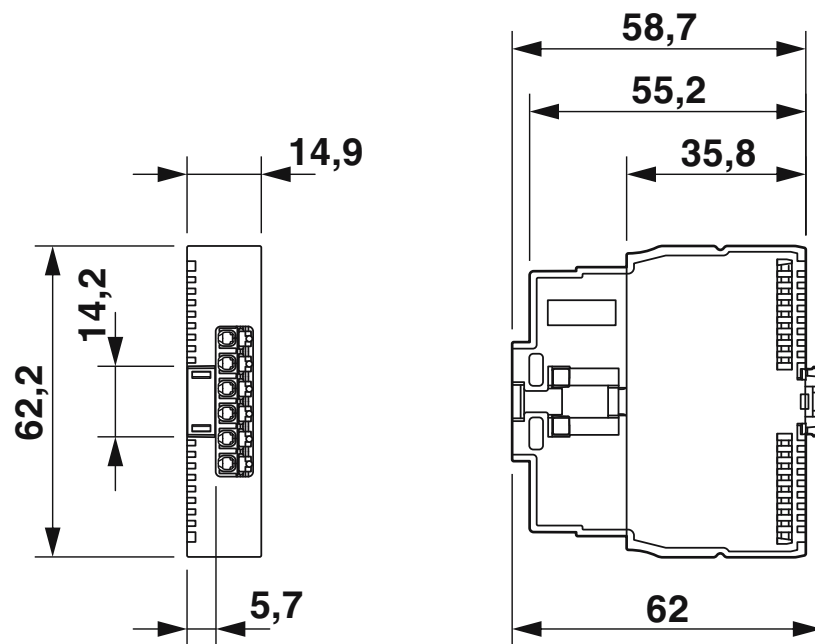
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Drawings

Dimensional drawing



Dimensions

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1105562>



UL Listed
Approval ID: E238705



EAC
Approval ID: TR_TS_D_01831-19



cUL Listed
Approval ID: E238705

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604

ETIM

ETIM 9.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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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	803dadcf-6223-4d53-89fd-02c84ab2202c

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Mandatory accessories

AXL F BP SE4 - Module carrier

1088135

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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/us/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

<https://www.phoenixcontact.com/us/products/1205037>



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/us/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/us/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, black/green

CRIMPFOX 10T-F - Crimping pliers

1134913

<https://www.phoenixcontact.com/us/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, 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, lettering field size: continuous x 3.2 mm, Number of individual labels: 1

SK 5,0 WH:REEL - Marker strip

0805221

<https://www.phoenixcontact.com/us/products/0805221>



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, lettering field size: continuous x 5 mm, Number of individual labels: 10

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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: snapped, for terminal block width: 5 mm, lettering field size: 5 x 12 mm, Number of individual labels: 24

UCT6M-TM 5 - Marker for terminal blocks

0830756

<https://www.phoenixcontact.com/us/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: snapped, for terminal block width: 5.2 mm, lettering field size: 4.17 x 11.3 mm

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