

AXL SE SSDO4/2 2A - Safety module



1190017

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Axioline Smart Elements, Digital output module, Functional safety, SafetyBridge technology, Safe digital outputs: 2 (2-channel assignment), 4 (1-channel assignment), 24 V DC, 2 A, 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 is a safe output module for use in a SafetyBridge system.

Your advantages

- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN CEI 62061, SIL 3 in accordance with IEC 61508
- 4 safe outputs for 1-channel assignment
- 2 safe outputs for 2-channel assignment
- 24 V DC, 2 A

Commercial data

Item number	1190017
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN03
Product key	DNA831
GTIN	4063151238285
Weight per piece (including packing)	48.43 g
Weight per piece (excluding packing)	36 g
Customs tariff number	85389091
Country of origin	DE

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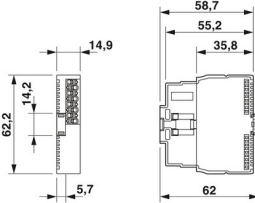


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Technical data

Dimensions

Dimensional drawing		
Width		14.9 mm
Height		62.2 mm
Depth		62 mm

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		
Input address area		5 Byte
Output address area		6 Byte

Output data

Digital		
Output name		Safe digital outputs
Output description		EN 61131-2
Connection method		Push-in connection
Connection technology		2-conductor
Number of outputs		2 (2-channel assignment)
		4 (1-channel assignment)
Protective circuit		Short-circuit protection, overload protection of the outputs; electronic
Output voltage		24 V DC
Output current		max. 2 A (per output)
Maximum output current per channel		2 A
Maximum output current per module		4 A
Nominal output voltage		24 V DC
Load min.		1.5 k Ω (at nominal voltage)
Output voltage when switched off		< 5 V

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Output current when switched off	< 2 mA
Nominal load, inductive	48 VA (1 H; 12 Ω; at nominal voltage)
Nominal load, ohmic	48 W (12 Ω, at nominal voltage)
Switching frequency	1 Hz (0.2 Hz at > 1 A)
Reverse voltage resistance to short pulses	no
Behavior with overload	Switch-off of the relevant output, restart upon acknowledgment
Behavior with inductive overload	Output can be destroyed

Product properties

Type	modular
Product type	I/O component
Product family	Axioline Smart Elements
Mounting position	any
Application	Functional safety SafetyBridge technology
Operating mode	SafetyBridge

Insulation characteristics

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

Electrical properties

Potentials: Axioline F local bus supply (U_{Bus})

Supply voltage	5 V DC (via bus base module)
Current draw	max. 120 mA (at U_{Bus} 5 V DC) typ. 93 mA (at U_{Bus} 5 V DC)

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. 30 mA ((Supply from U_P with 30 V DC, all outputs set, without supply to the actuators)) typ. 25 mA ((Supply from U_P with 24 V DC, all outputs set, without supply to the actuators))
Current consumption	min. 21 mA ((Supply from U_P with 19.2 V DC, all outputs set, without supply to the actuators))
Power consumption	max. 900 mW min. 403 mW

Connection data

Connection technology

Connection name	I/O
Note on the connection method	Note the specification in the section Conductor cross sections,

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and stripping and insertion lengths.

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
Stripping length	8 mm

I/O

Connection method	Push-in connection
Note on the connection method	Note the specification in the section Conductor cross sections, and stripping and insertion lengths.
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
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
Degree of protection at installation location	min. IP54
Air pressure (operation)	70 kPa ... 108 kPa
Air pressure (storage/transport)	66 kPa ... 108 kPa
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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Air clearances and creepage distances

Air clearances and creepage distances	IEC 60664-1
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Mounting

Mounting type	Smart Element slot
Mounting position	any

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Approvals

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**UL Listed**
Approval ID: FILE E 238705

**Functional Safety**
Approval ID: 968/FSP 2449.00/22

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**cUL Listed**
Approval ID: FILE E 238705

cULus Listed

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
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