

AXL F PSDO8/3 1F - Safety module



2701560

<https://www.phoenixcontact.com/us/products/2701560>

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Axioline F, Digital output module, Functional safety, PROFIsafe, only for connection to Phoenix Contact or Siemens controller, Digital outputs: 4 (for 2-channel assignment), 8 (for 1-channel assignment), 2 A, connection technology: 2-, 3-conductor, degree of protection: IP20

Product description

The safety module is an output module from the Axioline F product range designed for use in a PROFIsafe system. The module has four safe digital outputs for two-channel assignment or eight safe digital outputs for single-channel assignment. The outputs can be parameterized according to the application and enable the integration of actuators in the PROFIsafe system.

Your advantages

- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508

Commercial data

Item number	2701560
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN03
Product key	DNA531
GTIN	4046356769938
Weight per piece (including packing)	256.7 g
Weight per piece (excluding packing)	222 g
Customs tariff number	85389091
Country of origin	DE

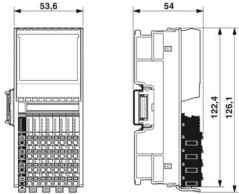
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Technical data

Dimensions

Dimensional drawing	
Width	53.6 mm
Height	126.1 mm
Depth	54 mm
Note on dimensions	Housing dimensions

Notes

Note on application

Note on application	Only for industrial use
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Material specifications

Color (Housing)	yellow (RAL 1018)
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Interfaces

Axioline F local bus

Connection method	Bus base module
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System properties

Programming data (LocalbusSlave)

Input address area	5 Byte
Output address area	5 Byte

Fieldbus data telegram

Required parameter data	22 Byte ((I-and F-parameters))
Required configuration data	10 Byte

Output data

Digital:

Output name	Digital outputs
Connection method	Direct plug-in technology
Connection technology	2-, 3-conductor
Number of outputs	4 (for 2-channel assignment)
	8 (for 1-channel assignment)
	8

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Protective circuit	Overload protection, freewheeling circuit for inductive loads, Discharge circuit for accelerated discharge of capacitive loads
Output voltage	24 V DC
Output current	max. 2 A (per channel)
	max. 1.5 A (per channel according to CUL_{US})
	max. 4 A (per group)
	max. 3 A (per group according to CUL_{US})
	max. 8 A (Total current of all outputs; Please observe the notes in the user manual.)
Maximum output current per channel	2 A
Maximum output current per module / terminal block	8 A
Permissible cable length	max. 1000 m (Forward and return line in total)
Behavior with overload	Affected output is disabled and a diagnostic message is generated.

Product properties

Product type	I/O component
Product family	Axioline F
Application	Functional safety
	PROFIsafe
	only for connection to Phoenix Contact or Siemens controller
Type	modular

Electrical properties

Maximum power dissipation for nominal condition	4 W
Transmission medium	Copper

Potentials

Protective circuit	Protection against polarity reversal, EMC protective circuit, undervoltage detection
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Potentials: Axioline F local bus supply (U_{BUS})

Supply voltage	5 V DC (via bus base module)
Current draw	max. 280 mA
	typ. 260 mA (all outputs set; supply by U_O of 19.2 V DC ... 30 V DC)

Potentials: Supply for digital output modules (U_O)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	typ. 25 mA (all outputs set; supply from U_O with 30 V DC; without supply to the actuators)
Current consumption	25 mA

Connection data

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Connection technology

Connection name	Axioline F connector
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Axioline F connector

Connection method	Push-in connection
Conductor cross-section, rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross-section AWG	24 ... 16

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-35 °C ... 60 °C (Mounting position: any)
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 108 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 75 % (on average, 85% infrequently, non-condensing)
Permissible humidity (storage/transport)	10 % ... 75 % (non-condensing)

Standards and regulations

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

Mounting type	DIN rail mounting
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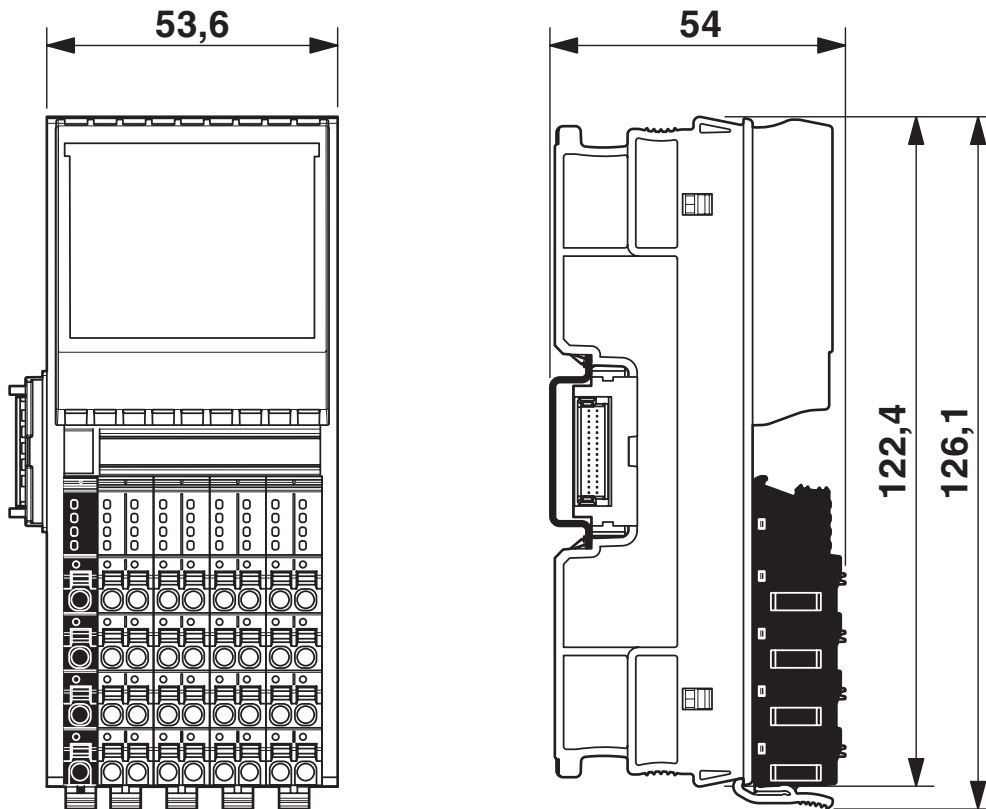
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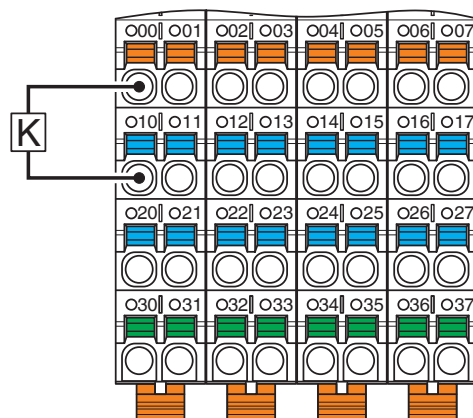
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Drawings

Dimensional drawing



Connection diagram



Example connection of a contactor

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2701560>



DNV GL

Approval ID: TAA00000DF

BSH

Approval ID: 840



cULus Listed

Approval ID: E238705



cULus Listed

Approval ID: E238705

PROFIsafe

Approval ID: Z20121



Functional Safety

Approval ID: 968/EZ 650.04/20

FS Thermoprocess

Approval ID: 968 INS 799.01 25

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Classifications

ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604
ECLASS-15.0 ASSET	27250101

ETIM

ETIM 10.0	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	c09a4c0e-d65b-4f62-9566-3022cd73a51a

EF3.1 Climate Change

CO2e kg	10.48 kg CO2e
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