

# AXL F PSDO8/3 1F - Safety module



2701560

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

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 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 g
Weight per piece (excluding packing)	222 g
Customs tariff number	85389091
Country of origin	DE

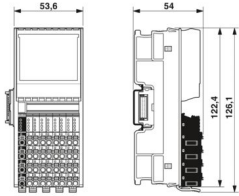
# AXL F PSDO8/3 1F - Safety module

2701560

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

## 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
---------------------	-------------------------

### Material specifications

Color (Housing)	yellow (RAL 1018)
-----------------	-------------------

### Interfaces

#### Axioline F local bus

Connection method	Bus base module
-------------------	-----------------

### 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

# AXL F PSDO8/3 1F - Safety module



2701560

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

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.) max. 6 A (Total current of all outputs according to $CUL_{US}$ )
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
--------------------	--

### 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

# AXL F PSDO8/3 1F - Safety module



2701560

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

## Connection technology

Connection name	Axioline F connector
-----------------	----------------------

## Axioline F connector

Connection method	Push-in connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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)
------------------	---------------------------------------

## Mounting

Mounting type	DIN rail mounting
---------------	-------------------

# AXL F PSDO8/3 1F - Safety module

2701560

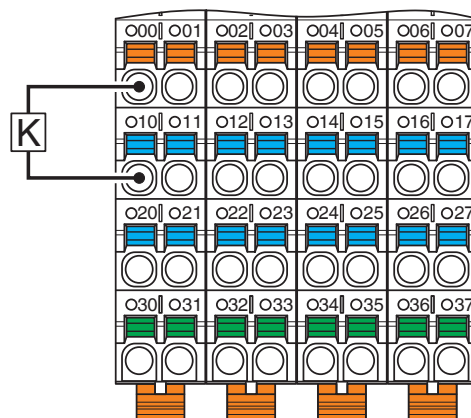
<https://www.phoenixcontact.com/us/products/2701560>

## Drawings

Dimensional drawing



Connection diagram



Example connection of a contactor

# AXL F PSDO8/3 1F - Safety module



2701560

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

## 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

# AXL F PSDO8/3 1F - Safety module



2701560

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

## Classifications

### ECLASS

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

### ETIM

ETIM 10.0	EC001599
-----------	----------

### UNSPSC

UNSPSC 21.0	32151600
-------------	----------

# AXL F PSDO8/3 1F - Safety module



2701560

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

## 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
---------	---------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)