

Safety module - AXL F PSDO8/3 1F



2701560

<https://www.phoenixcontact.com/gb/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 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	DNA531
Product Key	DNA531
Catalog Page	Page 271 (C-6-2019)
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

Safety module - AXL F PSDO8/3 1F

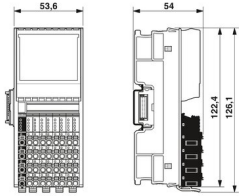


2701560

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

Technical Data

Dimensions

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

Interfaces

Axioline F local bus

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

System properties

Module

Input address area	5 Byte
Output address area	5 Byte
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)
Number of outputs	8
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)

Safety module - AXL F PSDO8/3 1F



2701560

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

	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

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

Electrical properties

Maximum power dissipation for nominal condition	24.12 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)

Connection data

Connection technology

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

Conductor connection

Connection method	Push-in connection
Conductor cross section solid	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

Axioline F connector

Connection method	Push-in connection
-------------------	--------------------

Safety module - AXL F PSDO8/3 1F



2701560

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

Conductor cross section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16

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
---------------	-------------------

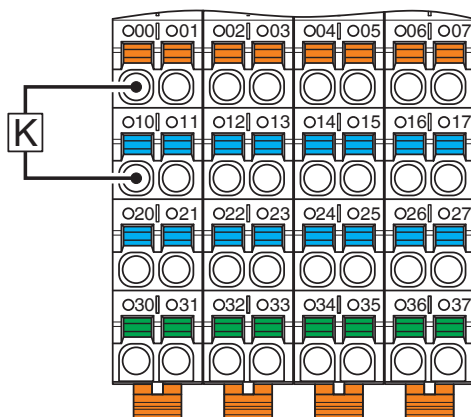
Safety module - AXL F PSDO8/3 1F

2701560

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

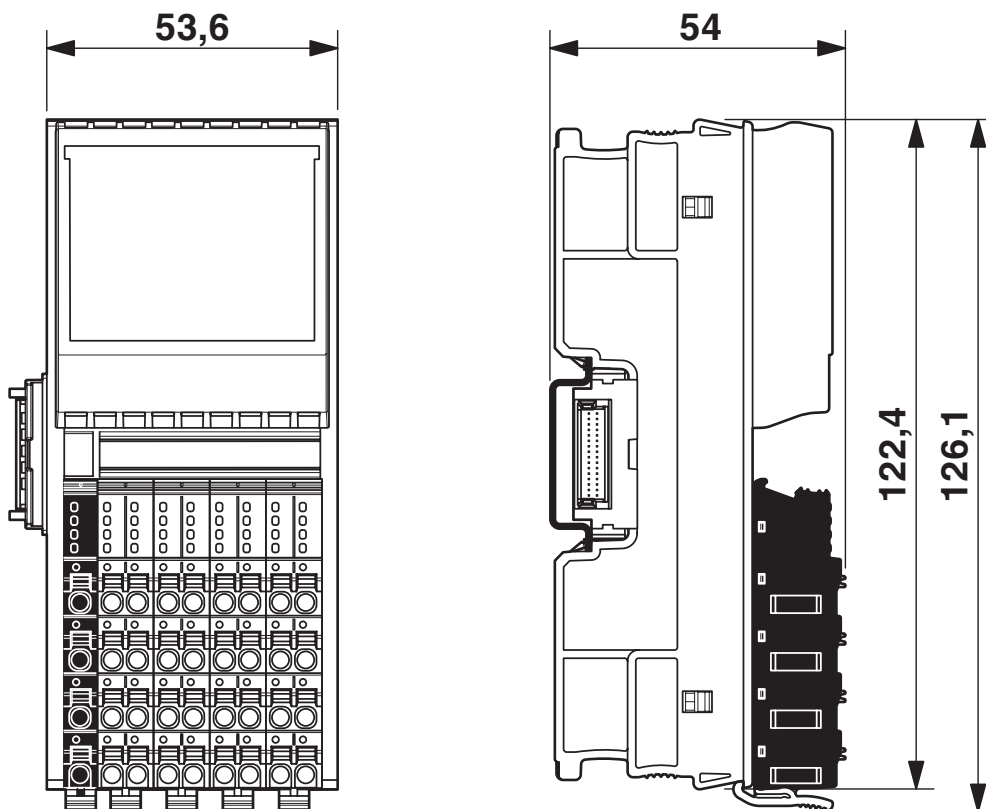

Drawings

Connection diagram



Example connection of a contactor

Dimensional drawing



Safety module - AXL F PSDO8/3 1F



2701560

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

Approvals

**DNV GL**

Approval ID: TAA00000DF

**UL Listed**

Approval ID: FILE E 238705

**cUL Listed**

Approval ID: FILE E 238705

BSH

Approval ID: 840

**Functional Safety**

Approval ID: 968/EZ 650.04/20

PROFIsafe

Approval ID: Z20121

**Functional Safety**

Approval ID: 968/EZ 650.04/20

**Functional Safety**

Approval ID: 968/EZ 650.00/14

cULus Listed

Safety module - AXL F PSDO8/3 1F



2701560

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

Classifications

ECLASS

ECLASS-9.0	27242604
ECLASS-10.0.1	27242604
ECLASS-11.0	27242604

ETIM

ETIM 8.0	EC001599
----------	----------

UNSPSC

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

Safety module - AXL F PSDO8/3 1F



2701560

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

Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

China RoHS

Environmentally Friendly Use Period = 50 years

For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2023 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk



SCATTERGOOD & JOHNSON LTD

ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

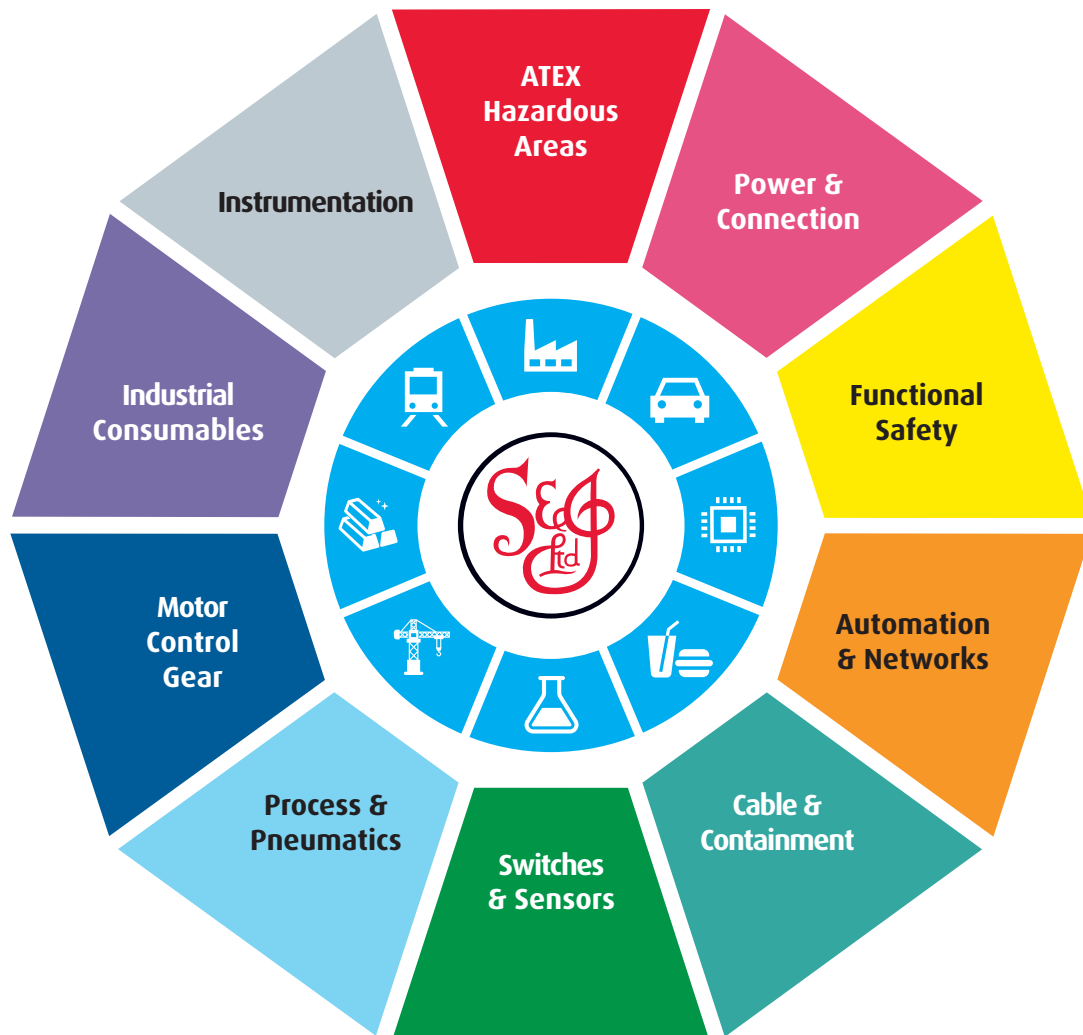
At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product manufacturers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

www.scatts.co.uk