

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	53,6
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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#### 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)
	8
Protective circuit	Overload protection, freewheeling circuit for inductive loads, Discharge circuit for accelerated discharge of capacitive loads
Output voltage	24 V DC



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Output current	max. 2 A (per channel)
	max. 1.5 A (per channel according to CUL <sub>US</sub> )
	max. 4 A (per group)
	max. 3 A (per group according to CUL <sub>US</sub> )
	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 <sub>US</sub> )
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.
oduct properties	
Product type	I/O component
Product family	Axioline F
Application	Functional safety
	PROFIsafe
	only for connection to Phoenix Contact or Siemens controller
Туре	modular
Transmission medium	Copper
Potentials  Protective circuit	Protection against polarity reversal, EMC protective circuit, undervoltage detection
Potentials: Axioline F local bus supply (U <sub>Bus</sub> )	
Supply voltage	5 V DC (via bus base module)
Current draw	max. 280 mA
	typ. 260 mA (all outputs set; supply by $\rm U_{O}$ of 19.2 V DC 30 V DC)
Potentials: Supply for digital output modules (U <sub>O</sub> )	
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 $\mathrm{U}_\mathrm{O}$ with 30 V DC; with supply to the actuators)
nnection data	
Connection technology	
Connection name	Axioline F connector
Conductor connection	
Connection method	Push-in connection
Connection metrica	i usii-iii cominconoti



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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
Axioline F connector  Connection method	Push-in connection
	Push-in connection 0.2 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Connection method	

#### 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
Mounting type	Diri raii modridig

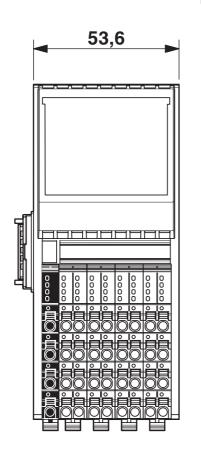


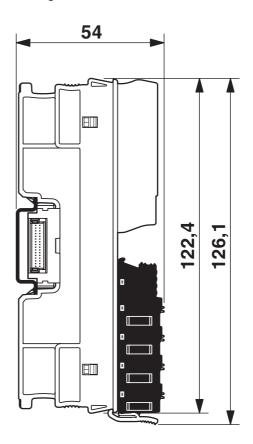
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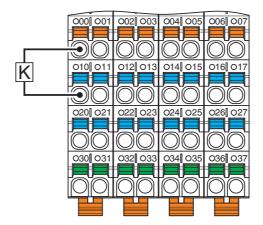
## Drawings

## Dimensional drawing





### Connection diagram



Example connection of a contactor



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## **Approvals**

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**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



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## Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-13.0	27242604
	ECLASS-15.0	27242604
	ECLASS-15.0 ASSET	27250101
ETIM		
	ETIM 9.0	EC001599
UN	SPSC	

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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	c09a4c0e-d65b-4f62-9566-3022cd73a51a
EF3.0 Climate Change	
CO2e kg	10.48 kg CO2e

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