

https://www.phoenixcontact.com/us/products/2702171



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Axioline F, Digital output module, Functional safety, SafetyBridge solution, Digital outputs: 4 (for 2-channel assignment), 8 (for 1-channel assignment), 2 A, degree of protection: IP20

Product description

The safety module is an output module from the Axioline F product range with integrated safety logic designed for use in a SafetyBridge Technology V3 system. The safety module can be used as part of an Axioline F station at any point within an EtherCAT®, EtherNet/IP™, Sercos, Modbus, PROFINET or PROFIBUS system. The module has four safe digital outputs for two-channel assignment or eight safe digital outputs for single-channel assignment.

Your advantages

- · Cost-effective system configuration, as no safety PLC or safe fieldbus system is required
- · Flexible use, thanks to compatibility with all bus couplers from the Axioline F range
- · Reduced installation time, thanks to fast wiring and easy handling
- · Easy configuration using the free SAFECONF software
- 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	2702171
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN03
Product key	DNA511
GTIN	4055626004983
Weight per piece (including packing)	352.9 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	
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System properties

SafetyBridge properties

Connection to I/O modules

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Logic memory	30 kByte
Module	
Input address area	48 Byte
Output address area	48 Byte
Required parameter data	1 Byte
Required configuration data	7 Byte

max. 16 (safe digital I/O modules)

Output data

Digital:

Digital.	
Output name	Digital outputs
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



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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 note 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.
duct properties	
Product type	I/O component
Product family	Axioline F
Application	Functional safety
	SafetyBridge
Туре	modular

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Transmission medium	Соррег
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 $\rm U_{O}$ 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	Spring-cage connection



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oline F connector	
Connection method	Spring-cage connection
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 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

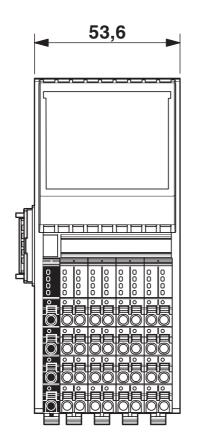
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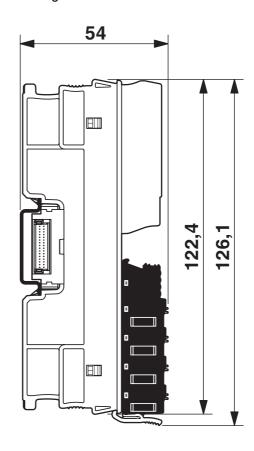
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Drawings

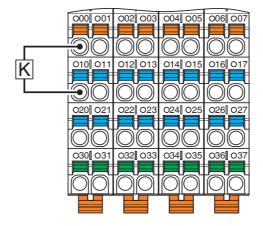
Dimensional drawing





Dimensions (in mm)

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



Functional Safety

Approval ID: 968/FSP 2449.00/22



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27242604		
	ECLASS-15.0	27242604		
ETIM				
	ETIM 9.0	EC001599		
UNSPSC				

32151600



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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)
SCIP	c46c2bb2-51c1-41e0-804d-ad04fbcdddc6

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