

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

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, 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	DNA
Product key	DNA511
Catalog page	Page 269 (C-6-2019)
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

HŒR

2702171

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



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	
SafetyBridge properties	
Connection to I/O modules	max. 16 (safe digital I/O modules)
Logic memory	30 kByte

Module

Module		
Input address area	48 Byte	
Output address area	48 Byte	
Required parameter data	1 Byte	
Required configuration data	7 Byte	

Output data

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
Output voltage	24 V DC
Output current	max. 2 A (per channel)
	max. 1.5 A (per channel according to $\mbox{CUL}_{\mbox{US}})$
	max. 4 A (per group)



2702171

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

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 $\text{CUL}_{\text{US}})$
2 A
8 A
max. 1000 m (Forward and return line in total)
Affected output is disabled and a diagnostic message is generated.
modular

71	
Product type	I/O component
Product family	Axioline F
Application	Functional safety
	SafetyBridge

Electrical properties

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 name	Axioline F connector	
Conductor connection		
Connection method	Spring-cage 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	
Axioline F connector		
Connection method	Spring-cage connection	

2702171

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

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

mbient 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

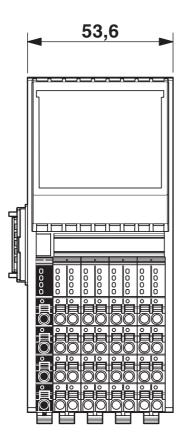
PHŒN

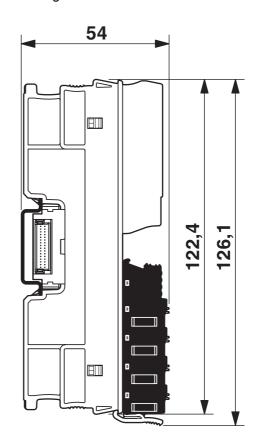
X

2702171

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

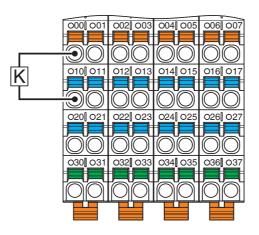
Drawings





Dimensions (in mm)

Connection diagram



Example connection of a contactor

Dimensional drawing

IPHŒN



2702171

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

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/lt/products/2702171

DNV GL Approval ID: TAA00000DF		
UL Listed Approval ID: FILE E 238705		
CUL Listed Approval ID: FILE E 238705		
BSH Approval ID: 840		
Approval ID: 968/FSP 2449.00/22		
Approval ID: 968/FSP 2449.00/22		
UAE-RoHS Approval ID: 23-02-63243		
cULus Listed		



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



Classifications

ECLASS

ECLASS-12.0 27242604 ECLASS-13.0 27242604	ECLASS-11.0	27242604
ECLASS-13.0 27242604	ECLASS-12.0	27242604
	ECLASS-13.0	27242604

ETIM

	ETIM 9.0	EC001599		
UNSPSC				
	UNSPSC 21.0	32151600		

2702171

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



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 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact UAB Svitrigailos str. 11B 03228 Vilnius +370 5 2106321 balticinfo@phoenixcontact.com