2701560

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

PHŒNIX CONTACT

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
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

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

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
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



2701560

https://www.phoenixcontact.com/us/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.
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
Maximum power dissipation for nominal condition Transmission medium	4 W Copper
Potentials	Deste sting appriant as locity as used LEMC protocity singuit
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 $\rm U_O$ with 30 V DC; witho supply to the actuators)
onnection data	
Connection technology	
Connection name	Axioline F connector

Connection name	Axioline F connector
Conductor connection	
Connection method	Push-in 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



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

Connection method	Push-in connection
Conductor cross section, rigid	0.2 mm ² 1.5 mm ²
Conductor cross section, flexible	0.2 mm² 1.5 mm²
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

2701560

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

Drawings

Connection diagram



Example connection of a contactor

Dimensional drawing





PHŒNIX CONTACT



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

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2701560



2701560

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



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
UN	NSPSC	
	UNSPSC 21.0	32151600

2701560

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



Environmental product compliance

URoHS	
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 "Manufacture declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1) 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
REACH candidate substance (CAS No.) SCIP	
х, , ,	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)

2701560

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



Accessories

AXL F BS F - Bus connector

2688129 https://www.phoenixcontact.com/us/products/2688129

Axioline F bus base module for housing type F



ZB 20,3 AXL UNPRINTED - Zack marker strip

0829579

https://www.phoenixcontact.com/us/products/0829579



Zack marker strip for Axioline F (device labeling), in 2 x 20.3 mm pitch, unprinted, 25-section, for individual labeling with B-STIFT 0.8, X-PEN, or CMS-P1-PLOTTER

2701560

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



ZBF 10/5,8 AXL UNPRINTED - Zack Marker strip, flat

0829580

https://www.phoenixcontact.com/us/products/0829580



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.15 mm, lettering field size: 4 x 10, 15 x 5 mm, 1 x 5.8 x 5 mm, Number of individual labels: 50

EMT (35X46)R - Insert label

0801604 https://www.phoenixcontact.com/us/products/0801604



Insert label, for marking the Axioline F series from Phoenix Contact, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: insert, lettering field size: 35 x 46 mm, Number of individual labels: 500

2701560

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



EMT (35X46)R YE - Insert label

0801605

https://www.phoenixcontact.com/us/products/0801605



Insert label, for marking the Axioline F series from Phoenix Contact, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: insert, lettering field size: 35 x 46 mm, Number of individual labels: 500

SZS 0,4X2,5 VDE - Screwdriver

1205037 https://www.phoenixcontact.com/us/products/1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

2701560

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



CRIMPFOX 6 - Crimping pliers

1212034

https://www.phoenixcontact.com/us/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

CRIMPFOX DUO 10 - Crimping pliers

1031721 https://www.phoenixcontact.com/us/products/1031721



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, standards/specifications: DIN 46228-1, DIN 46228-4, UL 486F, form A, E, F, min. cross section: 0.14 mm², max. cross section: 10 mm², for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, rotating die, lateral and frontal insertion, compression: Trapezoidal crimp, black/green

2701560

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



CRIMPFOX 10T-F - Crimping pliers

1134913

https://www.phoenixcontact.com/us/products/1134913



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, standards/specifications: DIN 46228-1, DIN 46228-4, min. cross section: 0.14 mm², max. cross section: 10 mm², For TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, frontal insertion, compression: Trapezoidal crimp, black

Axioline shield connection set (contains 2 shield bus holders and 2 SK 5 shield

AXL SHIELD SET - Shield connection

2700518 https://www.phoenixcontact.com/us/products/2700518



Phoenix Contact 2024 © - 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