AXC F XT SPLC 1000 - PLC extension module

1159811

https://www.phoenixcontact.com/gb/products/1159811

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CRA-READY



Alignable safety controller for 32 PROFIsafe devices connected to a modularly expandable PLCnext Control (not for AXC F 1152)

Your advantages

- Implementation of safety-related applications up to SIL 3/PL e
- PROFIsafe F-Host for up to 32 PROFIsafe F-Devices in PROFINET or Axioline
- PROFIsafe F-Device for communication with a higher-level PROFIsafe F-Host SPLC
- 2 x diverse SCPUs with Cortex M4-based architecture
- Full integration into the PLCnext Technology ecosystem

ELEKTROGERÄTE RÜCKNAHME

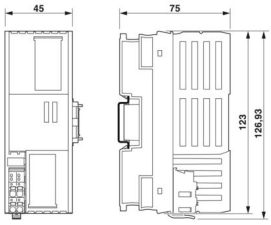
Commercial data

Item number	1159811
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRADAG
Product key	DRADAG
GTIN	4063151166663

Weight per piece (including packing)	396.7 g
Weight per piece (excluding packing)	142 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	45 mm
Height	126.93 mm
Depth	75 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

External dimensions

Width / Height / Depth	45 mm / 126.93 mm / 75 mm (The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).)

Notes

Note on application	If the SPLC-1000 is operated with AXC F 2152, the AXC BS L 2 bus base module must be used.
Note on application	Only for industrial use
Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Mounting

Mounting type	DIN rail mounting

Material specifications

Color	yellow (RAL 1018)

Interfaces

Web server	no

System properties

Processor	Arm® Cortex®-M4 180 MHz (CPU1)
	Arm® Cortex®-M4 100 MHz (CPU2)

PROFIsafe

Device function	PROFIsafe F-Host, PROFIsafe F-Device
Number of supported devices	32
Profile version	2.6MU1 (also includes support for V2.4)

Function

Diagnostics display	no
Redundancy function	no
Safety function	yes
Industrial cybersecurity	yes

Functionality

Programming tool	PLCnext Engineer

Product properties

Product type	I/O component
Product family	PLCnext Control Extension
Type	modular
Special properties	Development process certified in accordance with IEC 62443-4-1
	Product certified in accordance with IEC 62443-4-2
	The product is being prepared for compliance with the Cyber Resilience Act (CRA)

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Display

Diagnostics display	no

Electrical properties

Maximum power dissipation for nominal condition	typ. 1.92 W
	typ. 1.92 W

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Max. current consumption	100 mA
Typical current consumption	80 mA

Potentials: Supply of the logic voltage U_L

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 100 mA
	typ. 80 mA
Protective circuit	Reverse polarity protection; Polarity protection diode
	Transient protection; Suppressor diode

Connection data

Connection technology

Connection name	Axioline F connector

Axioline F connector

Connection method	Push-in 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
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C up to 2000 m above mean sea level
	-25 °C ... 55 °C up to 3000 m above mean sea level
	-25 °C ... 50 °C up to 4000 m above mean sea level
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	5 % ... 95 % (according to DIN EN 61131-2)
Shock (operation)	30g (in accordance with EN 60068-2-27/IEC 60068-2-27)
Shock (storage/transport)	30g (in accordance with EN 60068-2-27/IEC 60068-2-27)
Vibration (operation)	5g (in accordance with EN 60068-2-6/IEC 60068-2-6)
Vibration (storage/transport)	5g (in accordance with EN 60068-2-6/IEC 60068-2-6)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	58 kPa ... 106 kPa (up to 4500 m above mean sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Use of the device in these ambient conditions is prohibited.

Approvals

ATEX

Identification	Ⓔx II 3 G Ex ec IIC T4 Gc
Certificate	UL 21 ATEX 2651X

IECEx

Identification	Ex ec IIC T4 Gc
Certificate	IECEx ULD 21.0029X

UL Ex, USA / Canada

Identification	Class I, Zone 2, AEx ec IIC T4, Ex ec IIC T4 Gc X
	Class I, Div. 2 Groups A, B, C, D T4
Certificate	E366272

UL, USA/Canada

Identification	cULus
Certificate	E238705

Industrial Cyber Security

Identification	Industrial IT Security, IACS Component

Certificate	IITS2 029429 0027
Note	Configuration: Security Profile active

Characteristics

Safety data: EN ISO 13849

Performance level (PL)	max. e

Safety data: IEC 61508 - High demand

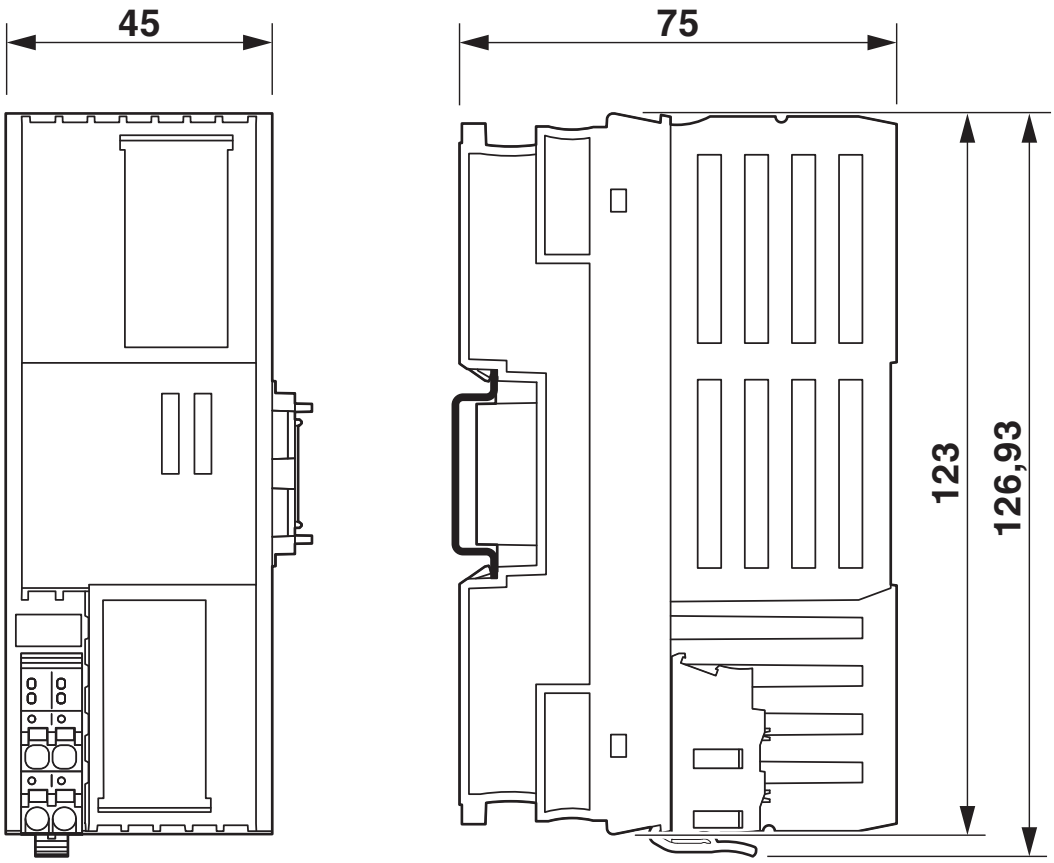
Safety Integrity Level (SIL)	max. 3

Safety data: EN IEC 62061

Safety Integrity Level Claim Limit (SIL CL)	max. 3

Drawings

Dimensional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1159811

PROFIsafe
Approval ID: Z20301

PROFIsafe
Approval ID: Z20299

DNV GL
Approval ID: TAA00000DF

cULus Listed
Approval ID: E238705

Cybersecurity Certificate
Approval ID: 968 CSP 1037.00 25

Functional Safety
Approval ID: 01/205/5864.00/21

Functional Safety
Approval ID: 968/FSP 2367.00/21

Functional Safety
Approval ID: 01/205U/5864.00/23

FS Thermoprocess
Approval ID: 968 INS 799.01 25

PROFIsafe
Approval ID: Z20301

PROFIsafe
Approval ID: Z20299

IECEx
Approval ID: IECEx ULD 21.0029X

ATEX
Approval ID: UL 21 ATEX 2651X

cULus Listed
Approval ID: E366272

Classifications

ECLASS

ECLASS-13.0	27242207
ECLASS-15.0	27242207
ECLASS-15.0 ASSET	27250101

ETIM

ETIM 10.0	EC000236

UNSPSC

UNSPSC 21.0	32151700

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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	5e5e678b-3b76-4eb5-b6f7-7f5e9ab2a092

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