

AXC F XT SPLC 1000 - PLC extension module



1159811

<https://www.phoenixcontact.com/au/products/1159811>

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The AXC F XT SPLC 1000 is a left-alignable, safety-oriented controller for operating PROFIsafe devices. The SPLC 1000 is connected to the AXC F 2152 or AXC F 3152 modular controllers from the PLCnext Control series.

Product description

Development process certified in accordance with IEC 62443-4-1 Certified in accordance with IEC 62443-4-2

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

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

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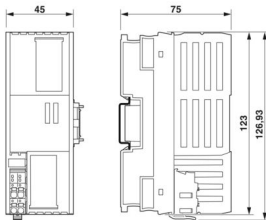


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Technical data

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).)
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Notes

General	If the SPLC-1000 is operated with AXC F 2152, the AXC BS L 2 bus base module must be used.
Note on application	
Note on application	Only for industrial use

Interfaces

Web server	no
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System properties

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

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

System requirements

Engineering tool	PLCnext Engineer
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Product properties

Product type	I/O component
Product family	PLCnext Control Extension

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Type	modular
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Insulation characteristics

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

Diagnostics display	no
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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
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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
Stripping length	8 mm

Axioline F connector

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
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

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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	Ⓔ II 3 G Ex ec IIC T4 Gc
Certificate	UL 21 ATEX 2651X
References to standards	EN IEC 60079-0, EN IEC 60079-7

IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX ULD 21.0029X
References to standards	IEC 60079-0 Ed. 7, IEC 60079-7 Ed. 5.1

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
References to standards	UL 60079-0, Ed. 7 / CSA C22.2 NO. 60079-0, Ed. 4
	UL 60079-7, Ed. 5 / CSA C22.2 NO. 60079-7, Ed. 2

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
References to standards	IEC 62443-4-1:2018
	IEC 62443-4-2:2019
	PPP 15003B:2021 (IEC 62443-4-1: Full ML3 Process Profile)

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Mounting

Mounting type	DIN rail mounting
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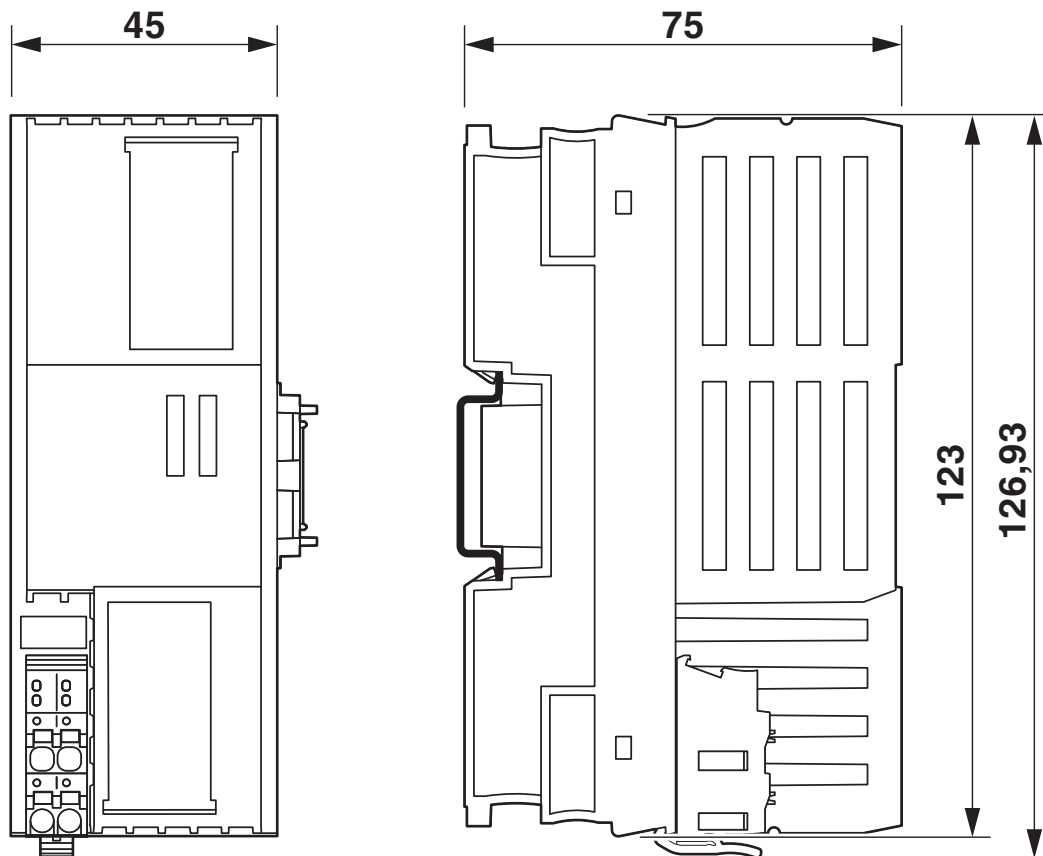
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Drawings

Dimensional drawing



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Approvals

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



Functional Safety

Approval ID: 01/205/5864.00/21



Functional Safety

Approval ID: 968/FSP 2367.00/21

PROFIsafe

Approval ID: Z20301

PROFIsafe

Approval ID: Z20299



DNV GL

Approval ID: TAA00000DF



Functional Safety

Approval ID: 01/205U/5864.00/23



TÜV SÜD Type tested

Approval ID: IITS2 029429 0027



cULus Listed

Approval ID: E238705



IECEx

Approval ID: IECEx ULD 21.0029X



ATEX

Approval ID: UL 21 ATEX 2651X



cULus Listed

Approval ID: E366272

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Classifications

ECLASS

ECLASS-13.0	27242207
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ETIM

ETIM 9.0	EC000236
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UNSPSC

UNSPSC 21.0	32151700
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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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