

AXC F XT SPLC 1000 - PLC extension module



1159811

<https://www.phoenixcontact.com/us/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.

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	DR09
Product key	DRADAG
GTIN	4063151166663
Weight per piece (including packing)	317 g
Weight per piece (excluding packing)	142 g
Customs tariff number	85371091
Country of origin	DE

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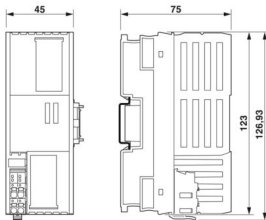


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Technical data

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.
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Interfaces

Web server	No
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System properties

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

Function

Diagnostics display	No
Controller redundancy	No
Safety function	yes

System requirements

Engineering tool	PLCnext Engineer
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Product properties

Product type	I/O component
Product family	PLCnext Control Extension
Type	modular

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

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

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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	Ex 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)

Mounting

Mounting type	DIN rail mounting
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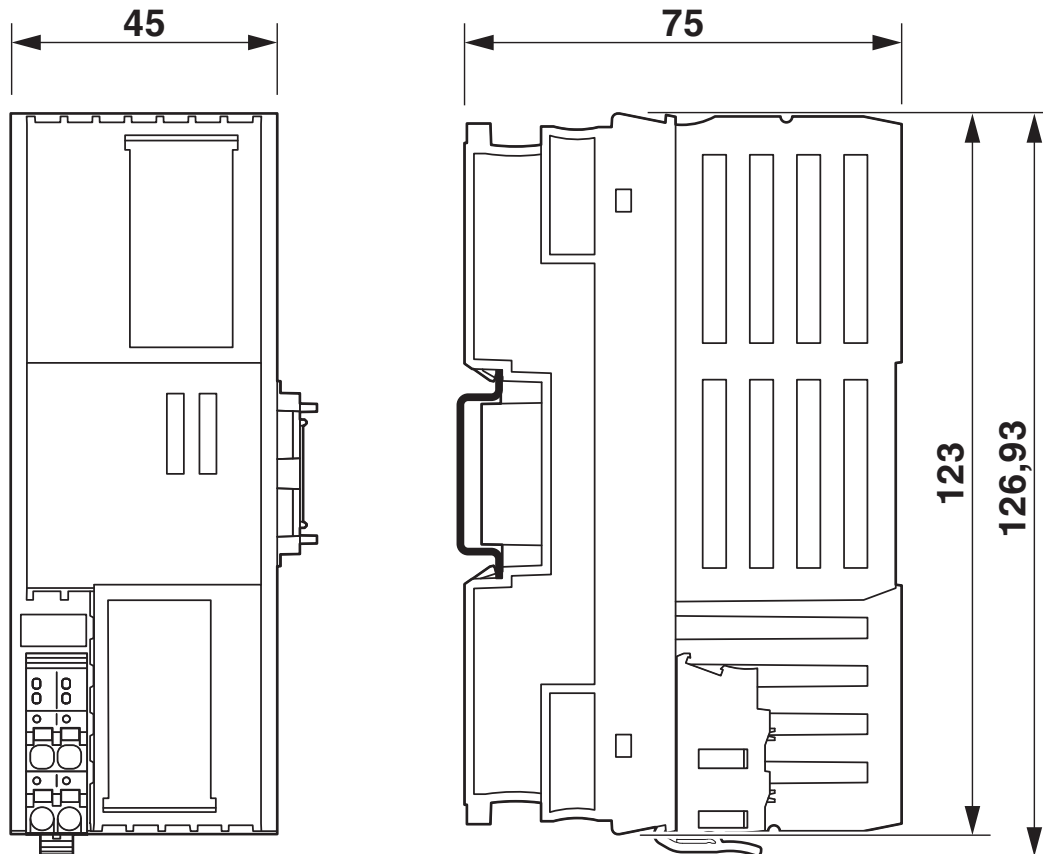
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Drawings

Dimensional drawing



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Approvals

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



Functional Safety

Approval ID: 01/205/5864.00/21



Functional Safety

Approval ID: 01/205/5864.00/21

PROFIsafe

Approval ID: Z20301

PROFIsafe

Approval ID: Z20301



DNV GL

Approval ID: TAA00000DF



DNV GL

Approval ID: TAA00000DF



Functional Safety

Approval ID: 968/FSP 2367.00/21



Functional Safety

Approval ID: 968/FSP 2367.00/21



Functional Safety

Approval ID: 01/205U/5864.00/23

PROFIsafe

Approval ID: Z20299

PROFIsafe

Approval ID: Z20299

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TÜV SÜD Type tested

Approval ID: IITS2 029429 0027



cULus Listed

Approval ID: E238705



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-11.0	27242207
ECLASS-12.0	27242207
ECLASS-13.0	27242207

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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Mandatory accessories

AXC F 2152 - Controller

2404267

<https://www.phoenixcontact.com/us/products/2404267>



PLCnext Control for the direct control of Axioline F I/Os. With two Ethernet interfaces. Complete with connector and bus base module.

AXC F 3152 - Controller

1069208

<https://www.phoenixcontact.com/us/products/1069208>



PLCnext Control for the direct control of Axioline F I/Os. With three independent Ethernet interfaces. Complete with connector and bus base module.

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AXC BS L 2 - Bus connector

1064312

<https://www.phoenixcontact.com/us/products/1064312>



Bus base module for the left alignment of AXC F XT... type extension modules to AXC F 2152 type controllers (item no. 2404267).

Accessories

AXL F BK PN TPS - Bus coupler

2403869

<https://www.phoenixcontact.com/us/products/2403869>



Axioline F, Bus coupler, PROFINET, RJ45 jack, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connector

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AXL SE PSDI8/3 - Safety module

1079241

<https://www.phoenixcontact.com/us/products/1079241>



Axiline Smart Elements, Digital input module, Functional safety, PROFIsafe, only for connection to Phoenix Contact or Siemens controller, Safe digital inputs: 4 (2-channel assignment), 8 (1-channel assignment), 24 V DC, connection technology: 3-conductor, degree of protection: IP20

AXL SE PSDO4/2 2A - Safety module

1079231

<https://www.phoenixcontact.com/us/products/1079231>



Axiline Smart Elements, Digital output module, Functional safety, PROFIsafe, only for connection to Phoenix Contact or Siemens controller, Safe digital outputs: 2 (2-channel assignment), 4 (1-channel assignment), 24 V DC, 2 A, connection technology: 2-conductor, degree of protection: IP20

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AXL SE SC-A - Cover

1088134

<https://www.phoenixcontact.com/us/products/1088134>



Axioline Smart Elements, Slot cover, Diagnostic function, degree of protection: IP20

AXL F BP SE4 - Module carrier

1088135

<https://www.phoenixcontact.com/us/products/1088135>



Axioline F, Backplane, 4 slots for Axioline Smart Elements, transmission speed in the local bus: 100 Mbps, degree of protection: IP20

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AXL F PSDO8/3 1F - Safety module

2701560

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



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

AXL F DI16/1 HS 1H - Digital module

2701722

<https://www.phoenixcontact.com/us/products/2701722>



Axioline F, Digital input module, Digital inputs: 16, 24 V DC, connection technology: 1-conductor, Input filter time < 5 μ s, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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QUINT4-PS/1AC/24DC/20/+ - Power supply unit

2904617

<https://www.phoenixcontact.com/us/products/2904617>



Primary-switched QUINT POWER supply for DIN rail mounting, with selectable output characteristic curve and SFB Technology (selective fuse breaking), protective coating and integrated decoupling MOSFET, input: 1-phase, output: 24 V DC / 20 A

QUINT4-PS/1AC/24DC/10 - Power supply unit

2904601

<https://www.phoenixcontact.com/us/products/2904601>



Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, and NFC interface, input: 1-phase, output: 24 V DC/10 A

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QUINT4-PS/1AC/24DC/5 - Power supply unit

2904600

<https://www.phoenixcontact.com/us/products/2904600>



Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, and NFC interface, input: 1-phase, output: 24 V DC/5 A

SD FLASH 8GB PLCNEXT MEMORY - Program / configuration memory

1061701

<https://www.phoenixcontact.com/us/products/1061701>



Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 8 GB.

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SD FLASH 2GB PLCNEXT MEMORY - Program / configuration memory

1043501

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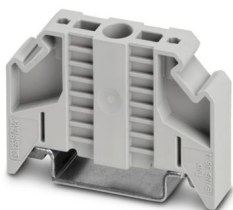


Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 2 GB.

E/NS 35 N - End bracket

0800886

<https://www.phoenixcontact.com/us/products/0800886>



End clamp, width: 9.5 mm, color: gray

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E/AL-NS 35 - End bracket

1201662

<https://www.phoenixcontact.com/us/products/1201662>



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

CLIPFIX 35 - End bracket

3022218

<https://www.phoenixcontact.com/us/products/3022218>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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CLIPFIX 35-5 - End bracket

3022276

<https://www.phoenixcontact.com/us/products/3022276>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

E/UK - End bracket

1201442

<https://www.phoenixcontact.com/us/products/1201442>



End bracket, Mounting on a DIN rail NS 32 or NS 35, material: PA, color: gray

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PLCNEXT ENGINEER - Programming software

1046008

<https://www.phoenixcontact.com/us/products/1046008>



Engineering software platform for Phoenix Contact automation controllers. PLCnext Engineer is IEC 61131-3-compliant and is available free of charge under Downloads. Its functionality can be extended using paid add-ins. To do this, open the license configurator via the "Configure" button.

AXL F PSDOR4/2 1F - Safety module

2702858

<https://www.phoenixcontact.com/us/products/2702858>



Axioline F, Relay module, Functional safety, PROFIsafe, only for connection to Phoenix Contact or Siemens controller, Signal inputs: 2, Outputs OUT24V_0 and OUT24V_1: 2, Safe relay outputs: 4 (floating), N/O contact, degree of protection: IP20

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AXL F PSDI8/4 1F - Safety module

2701559

<https://www.phoenixcontact.com/us/products/2701559>



Axioline F, Digital input module, Functional safety, PROFIsafe, only for connection to Phoenix Contact or Siemens controller, Digital inputs: 4 (for 2-channel assignment), 8 (for 1-channel assignment), 24 V DC, connection technology: 2-, 3-, 4-conductor, degree of protection: IP20

AXL F PSAI8 I 1F - Safety module

1061424

<https://www.phoenixcontact.com/us/products/1061424>



Axioline F, Analog input module, Functional safety, PROFIsafe, Only for connection to Phoenix Contact or Siemens controllers in PROFINET systems, Safe analog inputs: 8 (1-channel assignment), 4 (2-channel assignment), 4 mA .. . 20 mA, connection technology: 2-conductor (shielded, twisted pair), degree of protection: IP20

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