Extension module - AXC F XT SPLC 1000 - 1159811

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The AXC F XT SPLC 1000 (SPLC 1000) is a left-alignable, safety-oriented control 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

RoHS COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 166663
GTIN	4063151166663
Custom tariff number	85371091
Country of origin	Germany

Technical data

Dimensions

Width	45 mm
Height	126.93 mm
Depth	75 mm
Note on dimensions	The depth is valid when a TH 35-7,5 DIN rail is used (according to EN 60715).

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Technical data

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)
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)

Control system

Engineering tool	PLCnext Engineer
Programming languages supported	Programming in acc. with IEC 61131-3

General data

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)

Power supply

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

Mechanical design

Weight	142 g
Safety function	yes

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Interference emission	Noise emission test according to EN 61000-6-3/IEC 61000-6-3
Immunity to surge	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5 Criterion A; DC supply lines: ±0.5 kV/±0.5 kV (symmetrical/asymmetrical)
Immunity to burst	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion A, 2 kV

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Standards and Regulations

Immunity to EF	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
Immunity to ESD	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2
Immunity to conducted interference	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V
Vibration (operation)	5g (according to EN 60068-2-6/IEC 60068-2-6)
Shock (operation)	30g (according to EN 60068-2-27/IEC 60068-2-27)

Safety-related characteristic data

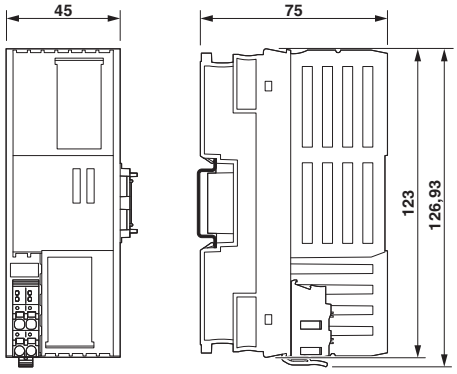
Designation	IEC 61508 - High demand
Safety Integrity Level (SIL)	max. 3
Designation	EN ISO 13849
Performance level (PL)	max. e
Category	max. 4
Designation	EN 62061
Safety Integrity Level Claim Limit (SIL CL)	max. 3

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27242207

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Classifications

eCl@ss

eCl@ss 11.0	27242207
eCl@ss 9.0	27242207

ETIM

ETIM 7.0	EC000236

Approvals

Approvals

Approvals

PROFIsafe / PROFIsafe / Functional Safety / Functional Safety / DNV GL

Ex Approvals

Approval details

PROFIsafe	Z20301

PROFIsafe	Z20299

Functional Safety		968/FSP 2367.00/21

Functional Safety		01/205/5864.00/21

DNV GL		https://approvalfinder.dnvgl.com/	TAA00000DF

Accessories

Accessories

Controller

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Accessories

Controller - AXC F 2152 - 2404267



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

Controller - AXC F 3152 - 1069208



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

DIN rail connector

Bus connector - AXC BS L 2 - 1064312



Bus base module for left-aligning the AXC F 2xxx controllers

End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

End clamp - E/AL-NS 35 - 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

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Accessories

End clamp - CLIPFIX 35 - 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

End clamp - CLIPFIX 35-5 - 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

End clamp - E/UK - 1201442



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

I/O component

Bus coupler - AXL F BK PN TPS - 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

Cover - AXL SE SC-A - 1088134



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

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Accessories

Module carrier - AXL F BP SE4 - 1088135



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

I/O module - AXL F DI16/1 HS 1H - 2701722



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

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IO components, safety related

Safety module - AXL SE PSDI8/3 - 1079241



Axioline Smart Elements, Digital input module, PROFIsafe, Safe digital inputs: 8 (1-channel assignment), 4 (2-channel assignment), 24 V DC, connection technology: 3-conductor, degree of protection: IP20

Safety module - AXL SE PSDO4/2 2A - 1079231



Axioline Smart Elements, Digital output module, PROFIsafe, Safe digital outputs: 4 (1-channel assignment), 2 (2-channel assignment), 24 V DC, 2 A, connection technology: 2-conductor, degree of protection: IP20

Safety module - AXL F PSDO8/3 1F - 2701560



Safety-related digital output module, degree of protection IP20, for use in PROFIsafe systems. The module has 4 safe digital outputs for two-channel assignment or 8 safe digital outputs for single-channel assignment.

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Accessories

Power supply

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

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

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

Programming

Software - PLCNEXT ENGINEER - 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. Free download of PLCnext Engineer software

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Storage medium

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Accessories

Program / configuration memory - SD FLASH 8GB PLCNEXT MEMORY - 1061701



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

Program / configuration memory - SD FLASH 2GB PLCNEXT MEMORY - 1043501



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

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