AXC F XT SPLC 3000 - PLC extension module

1160157

https://www.phoenixcontact.com/us/products/1160157

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Alignable safety controller for 300 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 300 PROFIsafe F-devices in PROFINET or Axioline
- PROFIsafe F-Device for communication with a higher-level PROFIsafe F-Host SPLC
- 2x diverse SCPUs with Cortex A8/A9-based architecture
- Full integration into the PLCnext Technology ecosystem

Commercial data

Item number	1160157
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR09
Product key	DRADAG
GTIN	4063151168148
Weight per piece (including packing)	664 g
Weight per piece (excluding packing)	400 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Dimensions

Width	100 mm
Height	127 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	100 mm / 127 mm / 75 mm (The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).)

Notes

General	If the SPLC-3000 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

System properties

Processor	Arm® Cortex®-A9 800 MHz (CPU1)
	Arm® Cortex®-A8 600 MHz (CPU2)

Function

Safety function	yes

System requirements

Engineering tool	PLCnext Engineer

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)

Electrical properties

Maximum power dissipation for nominal condition	typ. 5.52 W
	typ. 5.52 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	350 mA
Typical current consumption	230 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. 350 mA
	typ. 230 mA
Protective circuit	Reverse polarity protection; Polarity protection diode
	Transient protection; Suppressor diode

Connection data

Connection technology

Connection name	Axioline F connector

Conductor connection

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

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.

Mounting

Mounting type	DIN rail mounting

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1160157

PROFIsafe
Approval ID: Z20350

PROFIsafe
Approval ID: Z20351

Functional Safety
Approval ID: 01/205/5941.00/23

Classifications

ECLASS

ECLASS-13.0	27242207
ECLASS-15.0	27242207

ETIM

ETIM 9.0	EC000236

UNSPSC

UNSPSC 21.0	32151700

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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	d54c93e7-5a29-41c4-9953-17334b17468c

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Mandatory accessories

AXC F 2152 - Controller

2404267

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

Controller (SPS), PLCnext Control; Programming: High-level language and IEC 61131-3; Operating system: Yocto/Linux® (real-time); Programming tool: PLCnext Engineer, Eclipse®, Visual Studio®, MATLAB®/ Simulink®; IoT connection: PROFICLOUD and every cloud via cloud connectors; Development process certified in accordance with IEC 62443-4-1, Product certified in accordance with IEC 62443-4-2 (Certification conditions see user documentation); Processor: Arm® Cortex®-A9, 2x 800 MHz.

AXC F 3152 - Controller

1069208

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

Controller (SPS), PLCnext Control; Programming: High-level language and IEC 61131-3; Operating system: Yocto/Linux® (real-time); Programming tool: PLCnext Engineer, Eclipse®, Visual Studio®, MATLAB®/ Simulink®; IoT connection: PROFICLOUD and every cloud via cloud connectors; Development process certified in accordance with IEC 62443-4-1, Product certified in accordance with IEC 62443-4-2 (Certification conditions see user documentation); Processor: Intel® Atom® x5-E3930, 2x 1.3 GHz.

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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

Axioline 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

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

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

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

AXC F XT SPLC 3000 - PLC extension module

1160157

https://www.phoenixcontact.com/us/products/1160157

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

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

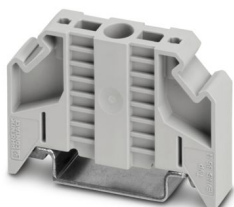https://www.phoenixcontact.com/us/products/1043501

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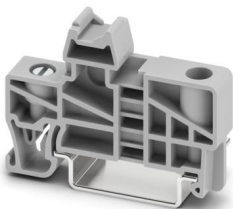
https://www.phoenixcontact.com/us/products/3022276

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, material: PA, mounting type: NS 35/7,5, NS 35/15, color: gray

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https://www.phoenixcontact.com/us/products/1160157

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.

AXC BS E XT SPARE PART - Replacement part

1670423

https://www.phoenixcontact.com/us/products/1670423

Replacement bus base for AXC F XT SPLC 3000.