AXC F XT SPLC 3000 - PLC extension module

1160157

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CRA-READY



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	DRADAG
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

Note on application	If the SPLC-3000 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)

System properties

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

PROFIsafe

Device function	PROFIsafe F-Host, PROFIsafe F-Device
Number of supported devices	300
Profile version	V2.6MU2 / V2.4

Function

Diagnostics display	no
Redundancy function	no
Safety function	yes

Functionality

Programming tool	PLCnext Engineer

Product properties

Product type	I/O component

Product family	PLCnext Control Extension
Type	modular
Special properties	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. 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

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.

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

Approvals

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

PROFIsafe
Approval ID: Z20350

PROFIsafe
Approval ID: Z20350

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

FS Thermoprocess
Approval ID: 968 INS 799.01 25

PROFIsafe
Approval ID: Z20351

PROFIsafe
Approval ID: Z20351

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

FS Thermoprocess
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Classifications

ECLASS

ECLASS-13.0	27242207
ECLASS-15.0	27242207

ETIM

ETIM 10.0	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.)	4,4'-isopropylidenediphenol(CAS: 80-05-7)
	Lead(CAS: 7439-92-1)
SCIP	d54c93e7-5a29-41c4-9953-17334b17468c

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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk