AXC F IL ADAPT - PLC extension module

1020304

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PLCnext Control Extension, PLC extension module, Right alignment, Adapter terminal, Extension module; interface: INTERBUS local bus (master): 1; Amount of process data: 4096 bit; degree of protection: IP20; Scope of supply: including bus base module and Inline connector; Supported controller: AXC F 1152, AXC F 1252, AXC F 2152; The product is being prepared for compliance with the Cyber Resilience Act (CRA).

Product description

The Inline adapter terminal (INTERBUS master) is designed to be aligned to the right of an Axiocontrol series PLCnext Control device. The Inline adapter terminal can be used to set up an Inline station for PLCnext Technology and to integrate INTERBUS devices.

Your advantages

- Automatic detection of the transmission speed in INTERBUS (500 kbps or 2 Mbps)
- Up to 63 INTERBUS local bus devices can be connected
- Diagnostic and status indicators
- Inline I/O adapter terminal specifically developed for all PLCnext Control devices of the Axiocontrol series
- A variety of functional I/Os creates options for flexible automation solutions
- Convert existing machines and systems to the new, open PLCnext Technology ecosystem

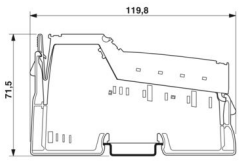
Commercial data

Item number	1020304

Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR09
Product key	DRADAF
GTIN	4055626510088
Weight per piece (including packing)	115.9 g
Weight per piece (excluding packing)	66 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Notes

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
Possible mounting positions	Right alignment

Material specifications

Color	gray (RAL 7042)

Interfaces

Inline local bus

Number of interfaces	1
Connection method	Inline data jumper

INTERBUS local bus (master)

Number of interfaces	1
Connection method	Inline data jumper
Transmission physics	Copper

System properties

Supported controller	AXC F 1152
	AXC F 1252
	AXC F 2152

System limits

Amount of process data (INTERBUS input/output data)	max. 4096 bit (INTERBUS input/output data)

Amount of process data (INTERBUS input data)	max. 2048 bit (INTERBUS input data)
Amount of process data (INTERBUS output data)	max. 2048 bit (INTERBUS output data)
Number of local bus devices that can be connected	max. 63 (observe current consumption)
Number of devices with parameter channel	max. 24
Number of supported branch terminals with remote bus branch	- 0 (INTERBUS remote bus not supported)

Programming data

Register length (master)	512 Byte

Product properties

Product type	I/O component
Product family	PLCnext Control Extension
Type	modular
Scope of supply	including bus base module and Inline connector
Special properties	The product is being prepared for compliance with the Cyber Resilience Act (CRA)
Diagnostics messages	Bus error in INTERBUS yes
	Peripheral fault in INTERBUS yes

Electrical properties

Maximum power dissipation for nominal condition	0.77 W

Potentials

Protective circuit	Polarity reversal protection of the supply voltage; Polarity protection diode
	Transient protection; Suppressor diode

Potentials: 24 V supply U_{ILC}

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Current draw	20 mA

Potentials: 7.5 V communications power U_L (potential jumper)

Supply voltage	7.5 V DC ±5 %
Power supply	max. 0.8 A DC (observe derating)

Potentials: 24 V analog supply U_{ANA} (potential jumper)

Supply voltage	24 V DC -15 % / +20 %
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	0.5 A DC (observe derating)

Potentials: 24 V main supply U_M

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A DC (sum of U_M + U_S)

Potentials: 24 V segment supply U_S

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

Power supply	max. 8 A (sum of U_M + U_S)

Supply: Module electronics

Current consumption	20 mA

Connection data

Connection technology

Connection name	Inline connector

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	10 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	30g, 11 ms period, half-sine shock pulse
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g

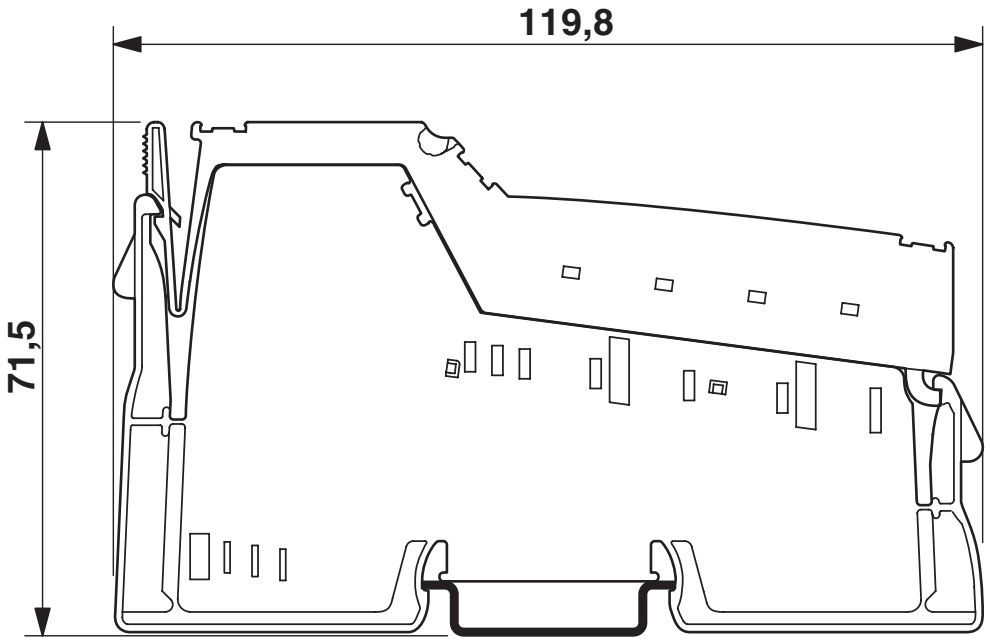
Approvals

UL, USA/Canada

Identification	cULus
Certificate	E238705

Drawings

Dimensional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1020304

DNV GL
Approval ID: TAA00000DF

LR
Approval ID: LR2480202TA-02

RINA
Approval ID: ELE008423XG001

ABS
Approval ID: 20-1968571-PDA

BSH
Approval ID: 840c

cULus Listed
Approval ID: E238705

cULus Listed
Approval ID: E366272

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

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	b07b7250-91ac-4d77-b234-9e941ab874e9

EF3.1 Climate Change

CO2e kg	16.249 kg CO2e

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