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Axioline F XC, Analog output module, Analog outputs: $4,0 \ V ... 5 \ V, -5 \ V ... 5 \ V, 0 \ V ... 10 \ V, -10 \ V ... 10 \ V, 0 \ Mbps, Extreme conditions version, including bus base module and Axioline F connectors$

The figure shows the standard item

Product Description

The module is designed for use within an Axioline F station. It is used to output analog voltage and current signals.

Why buy this product

- 4 analog output channels for the connection of either voltage or current signals
- ☑ Bipolar voltage outputs, unipolar current outputs
- ✓ Voltage ranges: 0 V ... 10 V, ±10 V, 0 V ... 5 V, ±5 V
- ☑ Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA
- Short-circuit-proof outputs
- ✓ No derating in all ranges
- ✓ Short signal rise times
- ☑ Driving of high loads
- ☑ Device rating plate stored
- ☑ Diagnostic and status indicators
- Can be used under extreme ambient conditions
- ☑ Extended temperature range of -40°C ... +70°C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- ✓ Partially coated PCBs



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 991315
GTIN	4046356991315

Technical data

Dimensions



Technical data

Dimensions

Width	35 mm
Height	126.1 mm
Depth	54 mm
Note on dimensions	The depth is valid when a TH 35-7,5 DIN rail is used (according to EN 60715).

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C (Standard)
	-40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

Connection data

Designation	Axioline F connector
Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual.
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	8 mm

General

Mounting type	DIN rail
Net weight	199 g
Note on weight specifications	with connectors and bus base module

Interfaces

Designation	Axioline F local bus
No. of channels	2
Connection method	Bus base module
Transmission speed	100 Mbps

Axioline potentials

Designation	Axioline F local bus supply (U _{Bus})
Supply voltage	5 V DC (via bus base module)



Technical data

Axioline potentials

Current consumption	typ. 120 mA
	max. 150 mA
Designation	Supply for analog modules (U _A)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 60 mA (4 voltage channels, 10 V output)
	max. 110 mA (4 current channels, 20 mA output, 500 Ω load)
Power consumption	typ. 2.04 W (at U _{Bus} and U _A)
	max. 3.39 W (at U _{Bus} and U _A)
Type of protection	Surge protection of the supply voltage
	Polarity reversal protection of the supply voltage
	Transient protection

Analog outputs

Number of outputs	4
Connection method	Push-in connection
Connection technology	2-wire
Note regarding the connection technology	shielded, twisted pair
Output name	Analog outputs
D/A resolution	16 bit
Type of protection	Short-circuit and overload protection
	Transient protection
Protective circuit/component	Electronic
	Suppressor diode
Data formats	IB IL, S7-compatible
Representation of output values	16 bits (15 bits + sign)
Process data update	140 µs
Current output signal	0 mA 20 mA
	4 mA 20 mA
Load/output load current output	≤ 500 Ω
Voltage output signal	0 V 5 V
	-5 V 5 V
	0 V 10 V
	-10 V 10 V
Load/output load voltage output	> 1 kΩ
Precision	typ. 0.1 % (of output range final value)

Electrical isolation

r rest section	5 V communications power (logic), 24 V supply (I/O) 500 V AC 50 Hz 1 min.
	5 V supply (logic)/analog outputs 500 V AC 50 Hz 1 min.
	5 V supply (logic)/functional earth ground 500 V AC 50 Hz 1 min.



Technical data

Electrical isolation

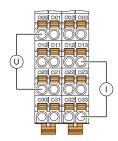
24 V supply (I/O)/analog outputs 500 V AC 50 Hz 1 min.
24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min.
Analog outputs/functional earth ground 500 V AC 50 Hz 1 min.

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

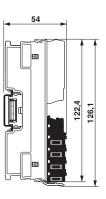
Connection diagram



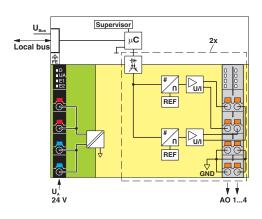
Connection for voltage and current output

Dimensional drawing





Block diagram



Internal wiring of the terminal points

Approvals

Approvals



Approvals

Αn	prova	ls

UL Listed / cUL Listed / RINA / NK / DNV GL / BSH / KR / cULus Listed

Ex Approvals

Approval details

UL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 238705

cUL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 238705

RINA



http://www.rina.org/en

ELE0078216XG

 NK



http://www.classnk.or.jp/hp/en/

14A006

DNV GL

http://exchange.dnv.com/tari/

TAA0000DF

840

BSH

http://www.bsh.de/de/index.jsp

KR



http://www.krs.co.kr/eng/main/main.aspx

HMB17372-AC002

cULus Listed





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