

AXL F IF CAN 1H - Communication module



2702668

<https://www.phoenixcontact.com/us/products/2702668>

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Axioline F, interface module, CAN, transparent protocol, max. transmission speed of 1 Mbps, IP20 protection, including bus base module and Axioline F connectors

Product description

The module is designed for use within an Axioline F station. This module can be used to integrate a lower-level CAN bus system into the Axioline F station and therefore the bus system used. This Axioline F module acts as the interface for the transparent reading and writing of CAN messages. With appropriate programming on the higher-level controller, it is suitable for CANopen[®], J1939, NMEA 2000, and proprietary CAN protocols.

Your advantages

- Transparent reading and writing of CAN messages
- Integrated buffer memory for 256 CAN messages in the receive direction and 64 CAN messages in the transmit direction
- Parameterizable filter function for 60 filters (11-bit CAN identifier) and 30 filters (29-bit CAN identifier)
- Device rating plate stored
- Diagnostic and status indicators

Commercial data

Item number	2702668
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR02
Product key	DRI253
GTIN	4055626317175
Weight per piece (including packing)	189.3 g
Weight per piece (excluding packing)	189.3 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
Width	35 mm
Height	126.1 mm
Depth	54 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

Interfaces

Axioline F local bus

Number of interfaces	2
Connection method	Bus base module
Transmission speed	100 Mbps

CAN bus

Connection method	Push-in connection
Transmission speed range	10 kbps ... 1 Mbps (Default: 20 kbps)
Transmission physics	CAN bus according to standard ISO 11898-2 (high-speed CAN)
No. of channels	1

System properties

Module

Process data channel	64 Byte
Input address area	64 Byte
Output address area	64 Byte
Required parameter data	1 Byte
Required configuration data	7 Byte

Product properties

Product type	I/O component
Product family	Axioline F
Type	block modular
Mounting position	any (no temperature derating)

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
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Pollution degree	2 (IEC 60664-1, EN 60664-1)
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Electrical properties

Potentials: Axioline F local bus supply (U_{BUS})

Supply voltage	5 V DC (via bus base module)
Current draw	max. 150 mA
Power consumption	max. 0.75 W

Potentials: Feed-in of supply voltage (U_I)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC including all tolerances, including ripple
Current draw	max. 25 mA
Power consumption	max. 0.6 W

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply of the local bus (U_{BUS}) / 24 V supply (I/Os)	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply of the local bus (U_{BUS}) / CAN I/Os	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (I/O) / CAN I/O	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply of the local bus (U_{BUS}) / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min.

Connection data

Connection technology

Connection name	Axioline F connector
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual.

Conductor connection

Connection method	Push-in connection
Conductor cross section rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16
Stripping length	8 mm

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, rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross section, flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16
Stripping length	8 mm

Environmental and real-life conditions

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Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
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)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Standards and regulations

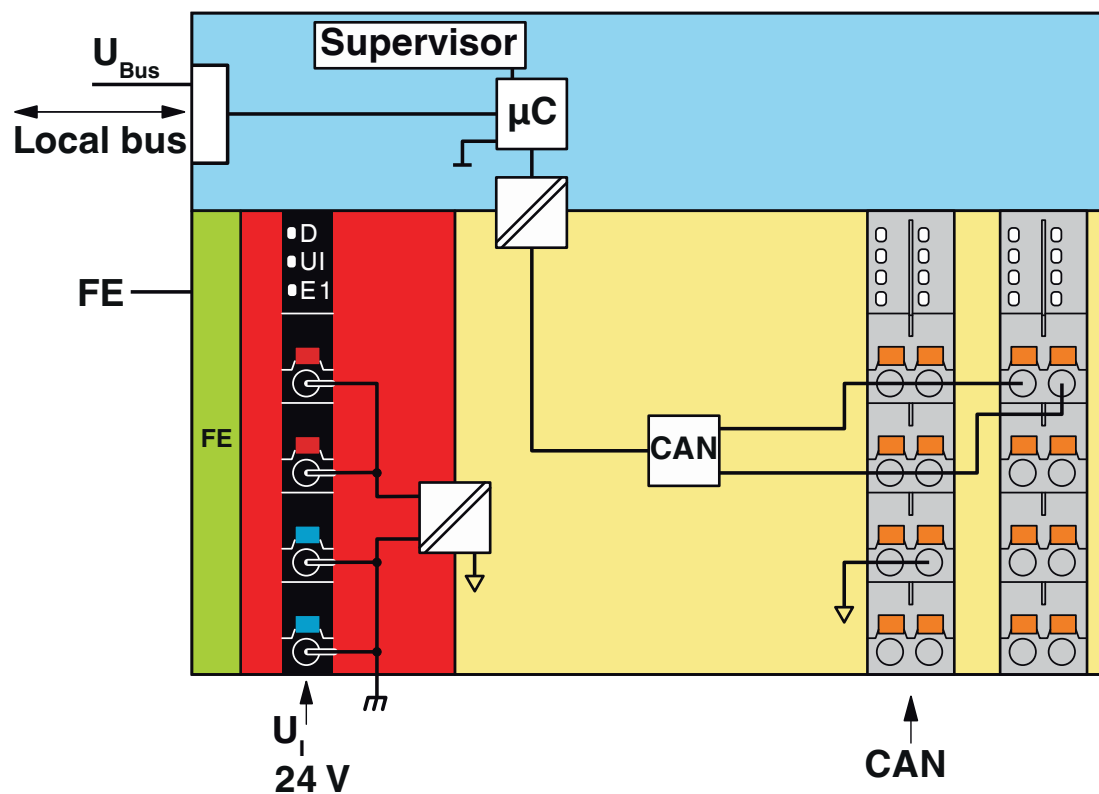
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
Mounting position	any (no temperature derating)

Drawings

Block diagram



Internal wiring of the terminal points

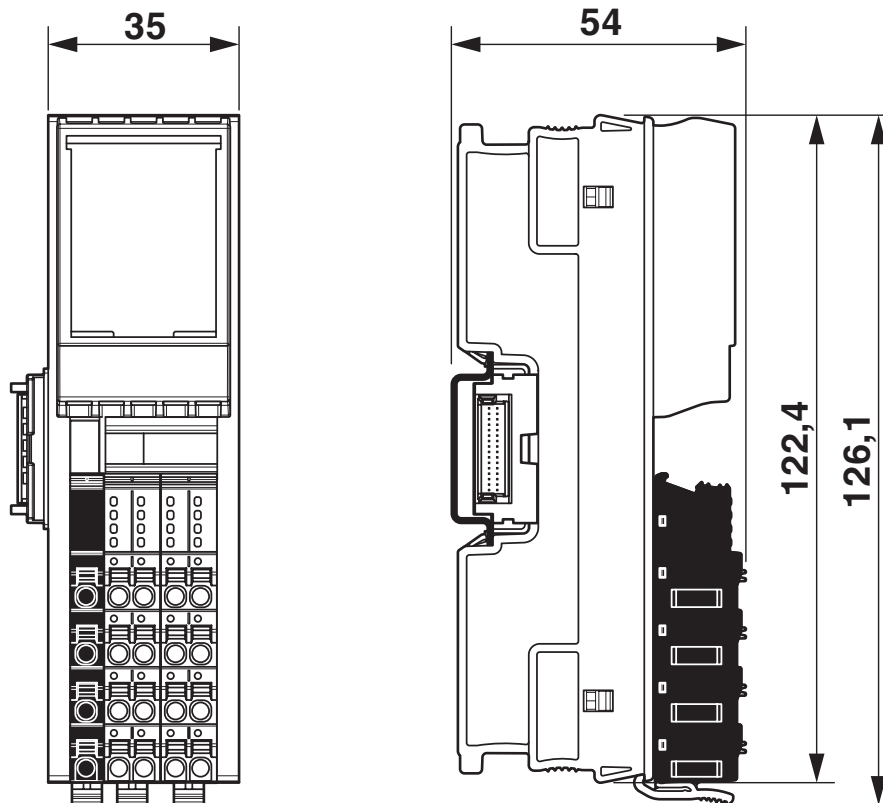
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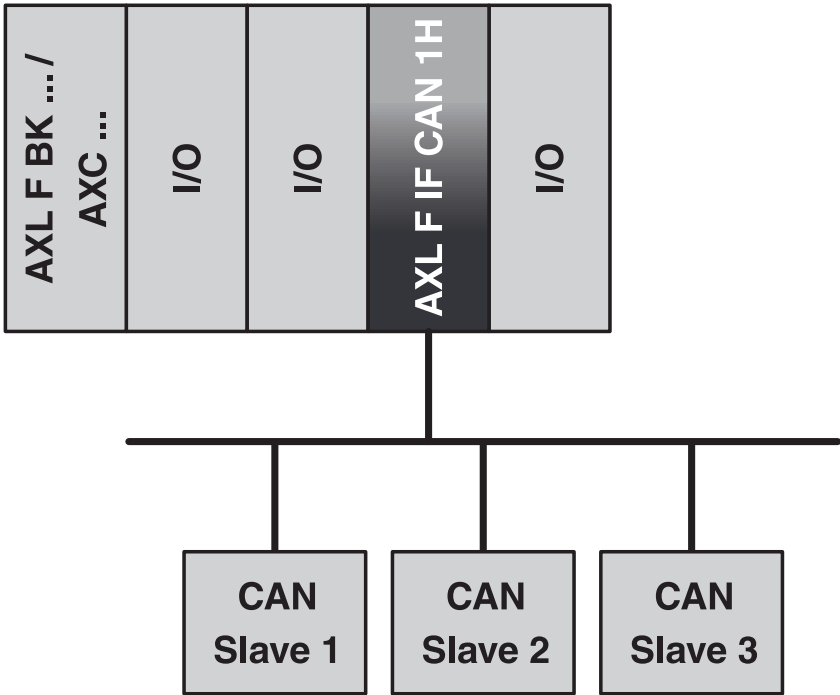
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Dimensional drawing



Schematic diagram



Connection example

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Approvals

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DNV GL

Approval ID: TAA00000DF



LR

Approval ID: LR2001902TA-08



NK

Approval ID: 14A006



BV

Approval ID: 36433/B4 BV



PRS

Approval ID: TE/1020/880590/21

BSH

Approval ID: 840



RINA

Approval ID: ELE008423XG

ABS

Approval ID: 23-2449604-PDA

UAE-RoHS

Approval ID: 23-02-63241



cULus Listed

Approval ID: E238705

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Classifications

ECLASS

ECLASS-11.0	27242605
ECLASS-12.0	27242605
ECLASS-13.0	27242605

ETIM

ETIM 9.0	EC001601
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UNSPSC

UNSPSC 21.0	32151600
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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	baf27848-8d7d-4727-ba5e-2b5d31b12424

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Accessories

AXL F BS H - Bus connector

2700992

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Axioline F bus base module for housing type H



ZB 20,3 AXL UNPRINTED - Zack marker strip

0829579

<https://www.phoenixcontact.com/us/products/0829579>



Zack marker strip for Axioline F (device labeling), in 2 x 20.3 mm pitch, unprinted, 25-section, for individual labeling with B-STIFT 0.8, X-PEN, or CMS-P1-PLOTTER

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ZBF 10/5,8 AXL UNPRINTED - Zack Marker strip, flat

0829580

<https://www.phoenixcontact.com/us/products/0829580>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.15 mm, lettering field size: 4 x 10, 15 x 5 mm, 1 x 5.8 x 5 mm, Number of individual labels: 50

AXL SHIELD SET - Shield connection

2700518

<https://www.phoenixcontact.com/us/products/2700518>



Axioline shield connection set (contains 2 shield bus holders and 2 SK 5 shield connection clamps)

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EMT (35X28)R - Insert label

0801602

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Insert label, for marking the Axioline F series from Phoenix Contact, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: insert, lettering field size: 35 x 28 mm, Number of individual labels: 500

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