

# AXL F IF CAN 1H - Communication module



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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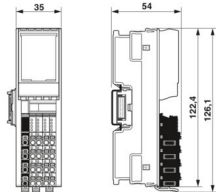


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## Technical data

### 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).

### Notes

#### Note on application

Note on application	Only for industrial use
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### Interfaces

Supported protocols	CANopen®
	J1939
	NMEA 2000
	proprietary CAN protocols (with appropriate programming on the higher-level controller)

#### Axioline F local bus

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

#### CAN bus

Number of interfaces	1
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)

### System properties

#### Module

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

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Required configuration data	7 Byte
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## Product properties

Product type	I/O component
Product family	Axioline F
Type	block modular
Mounting position	any (no temperature derating)
Scope of supply	including bus base module and Axioline F connectors

## Insulation characteristics

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

## Electrical properties

Maximum power dissipation for nominal condition	1.35 W
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### Potentials: Axioline F local bus supply ( $U_{BUS}$ )

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

### 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

## 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.

### 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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16

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Stripping length	8 mm
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## Environmental and real-life conditions

### 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)

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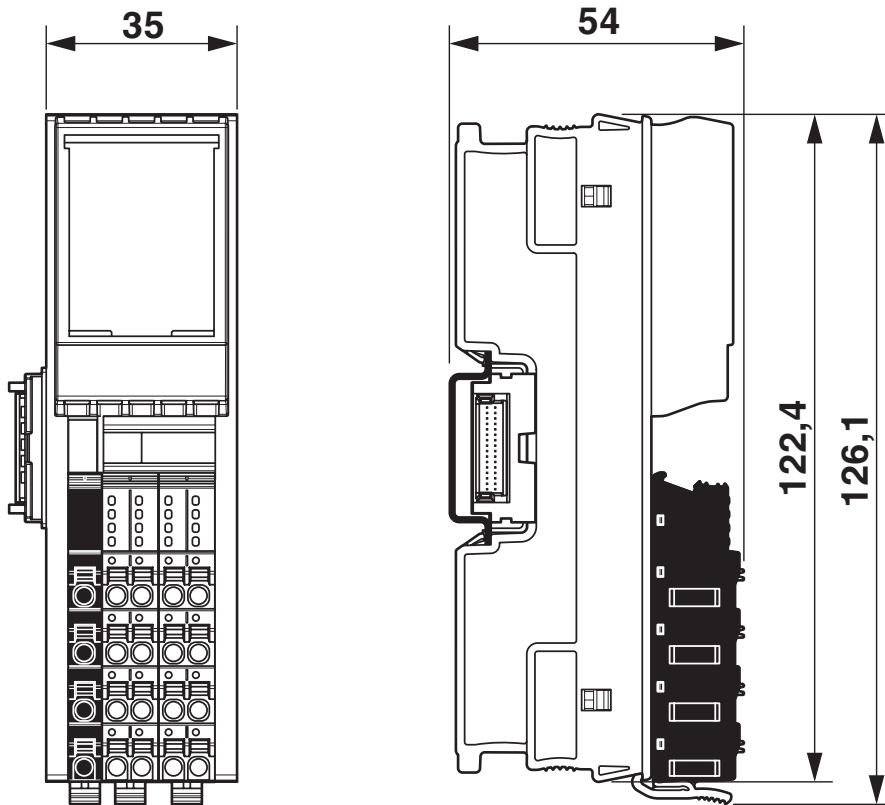
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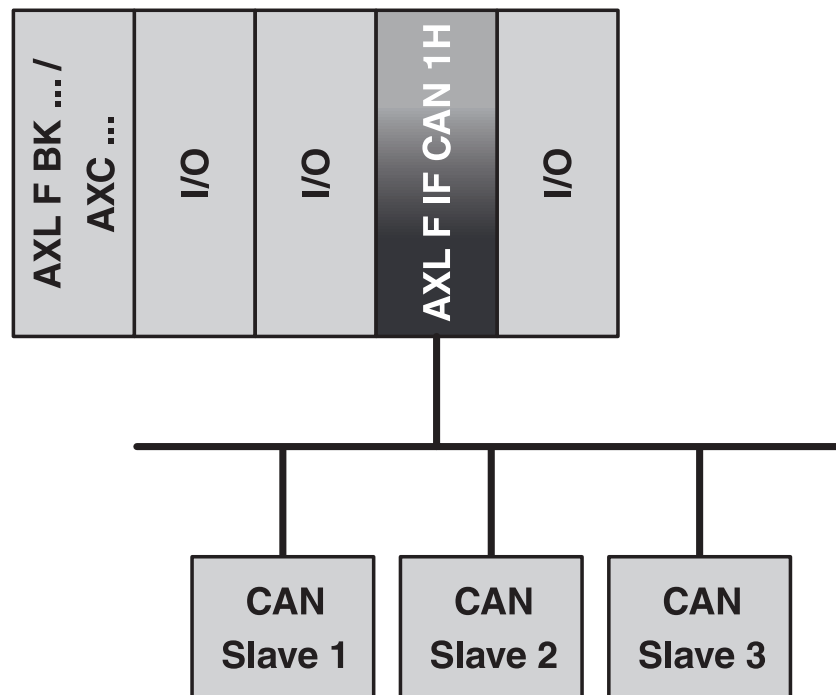
## Drawings

Dimensional drawing



## Dimensions

Schematic diagram



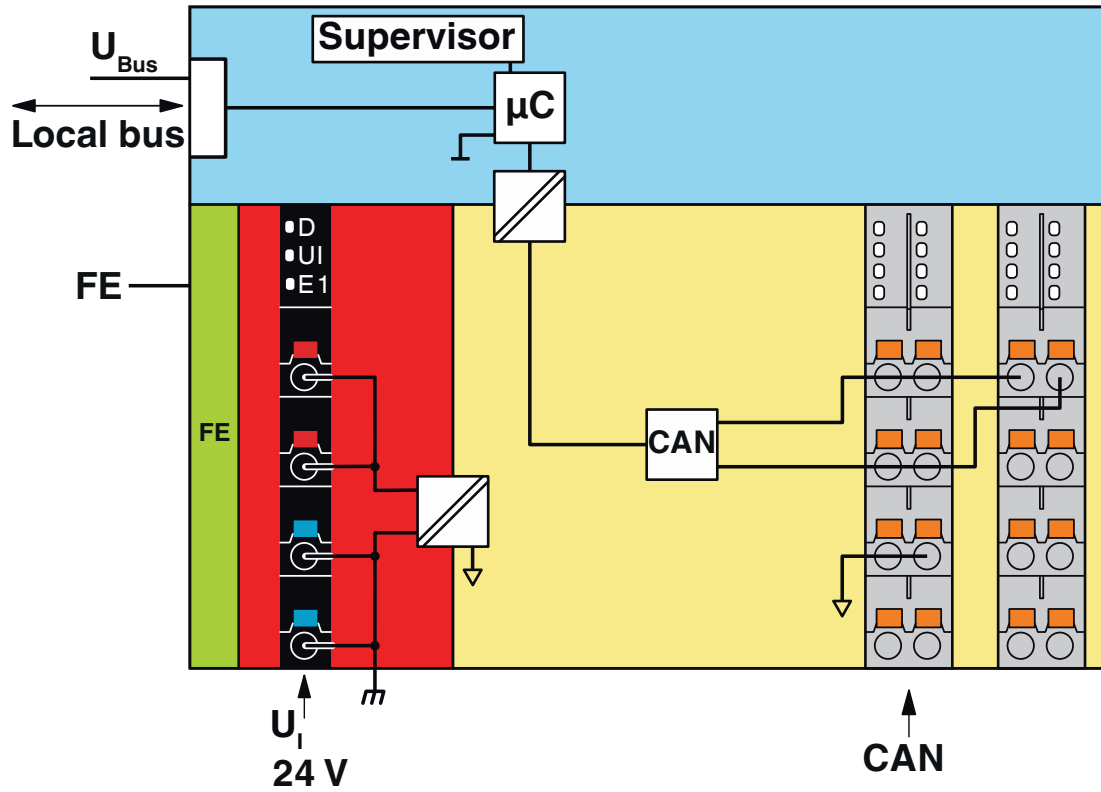
Connection example

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Block diagram




Internal wiring of the terminal points

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702668>



**DNV GL**

Approval ID: TAA00000DF



**PRS**

Approval ID: TE/1020/880590/21

**BSH**

Approval ID: 840



**RINA**

Approval ID: ELE008423XG001



**cULus Listed**

Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0	27242605
ECLASS-15.0	27242605

### ETIM

ETIM 10.0	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)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	baf27848-8d7d-4727-ba5e-2b5d31b12424

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