AXL F RS UNI 1H - Communication module

2688666

https://www.phoenixcontact.com/us/products/2688666

Axioline F, Communication module, interface RS-232, RS-485, RS-422: 1, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

Product description

The module is designed for use within an Axioline F station. The module is used to operate standard I/O devices with serial interfaces on a bus system.

Your advantages

- A serial input and output channel in RS-232, RS-422, and RS-485 format
- Various protocols supported
- Transmission speed can be set up to 250000 bps
- Parameterization via the PDI channel
- Device rating plate stored

Commercial data

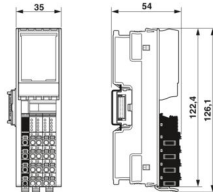|	
Item number	2688666
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR02
Product key	DRI251
GTIN	4046356730860
Weight per piece (including packing)	185 g
Weight per piece (excluding packing)	182 g
Customs tariff number	85176200
Country of origin	DE

AXL F RS UNI 1H - Communication module

2688666

https://www.phoenixcontact.com/us/products/2688666

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

Interfaces

Axioline F local bus

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

RS-232, RS-485, RS-422

Number of interfaces	1
Connection method	Push-in connection
Transmission speed	110 bps ... 250 kbps (can be parameterized)
Transmission physics	Copper
Protocols supported	Transparent, end-to-end, XON/XOFF, Modbus/RTU (client support)
Termination resistor	active, integrated
Data bits	5 ... 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

System properties

Module

Input address area	20 Byte
Output address area	20 Byte

Required parameter data	14 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)
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	1.2 W

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

Supply voltage	5 V DC (via bus base module)
Current draw	max. 240 mA
	typ. 200 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply of the local bus (U_{Bus}) / 5 V supply (I/Os)	1000 V DC, 1 min
Test voltage: 5 V supply of the local bus (U_{Bus}) / functional ground	1000 V DC, 1 min
Test voltage: 5 V supply (I/O)/functional ground	1000 V DC, 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 mm² ... 1.5 mm²
Conductor cross-section flexible	0.2 mm² ... 1.5 mm²
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 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

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)

Mounting

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

AXL F RS UNI 1H - Communication module

Drawings

Dimensional drawing
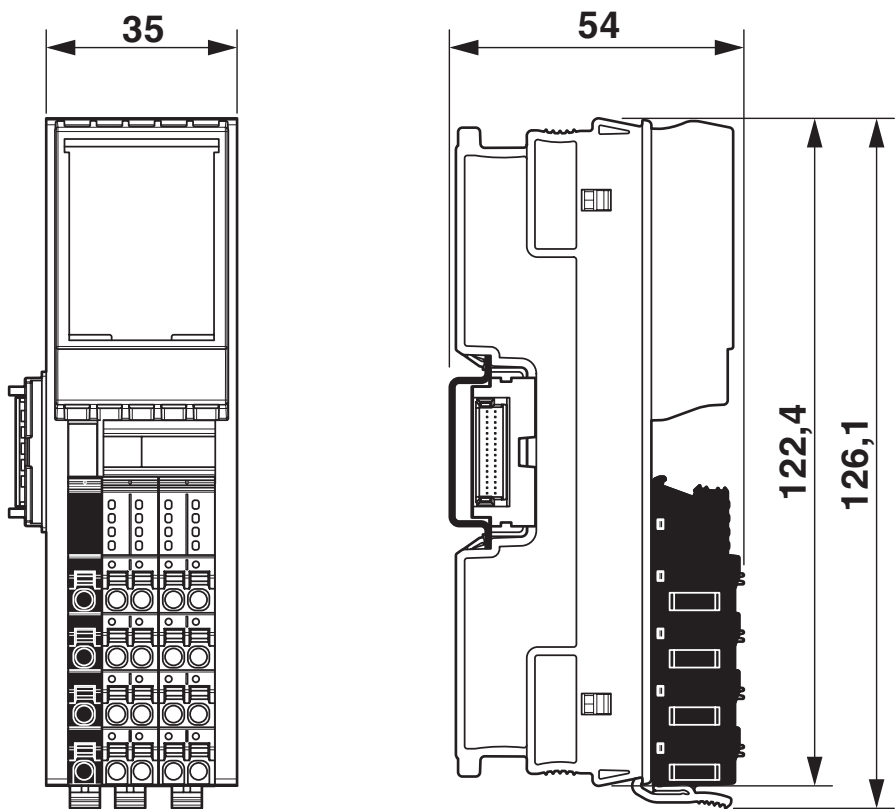
Dimensions

Connection diagram

RS-485

RxD− RxD+ ⊥

RS-232

⊥ DTR CTS TxD RxD

AXL F RS UNI 1H - Communication module

2688666

https://www.phoenixcontact.com/us/products/2688666
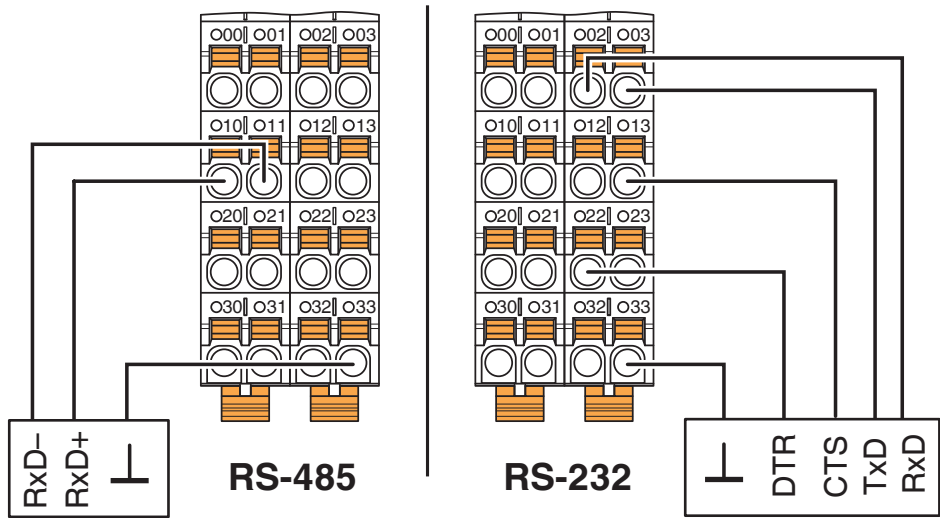
Block diagram
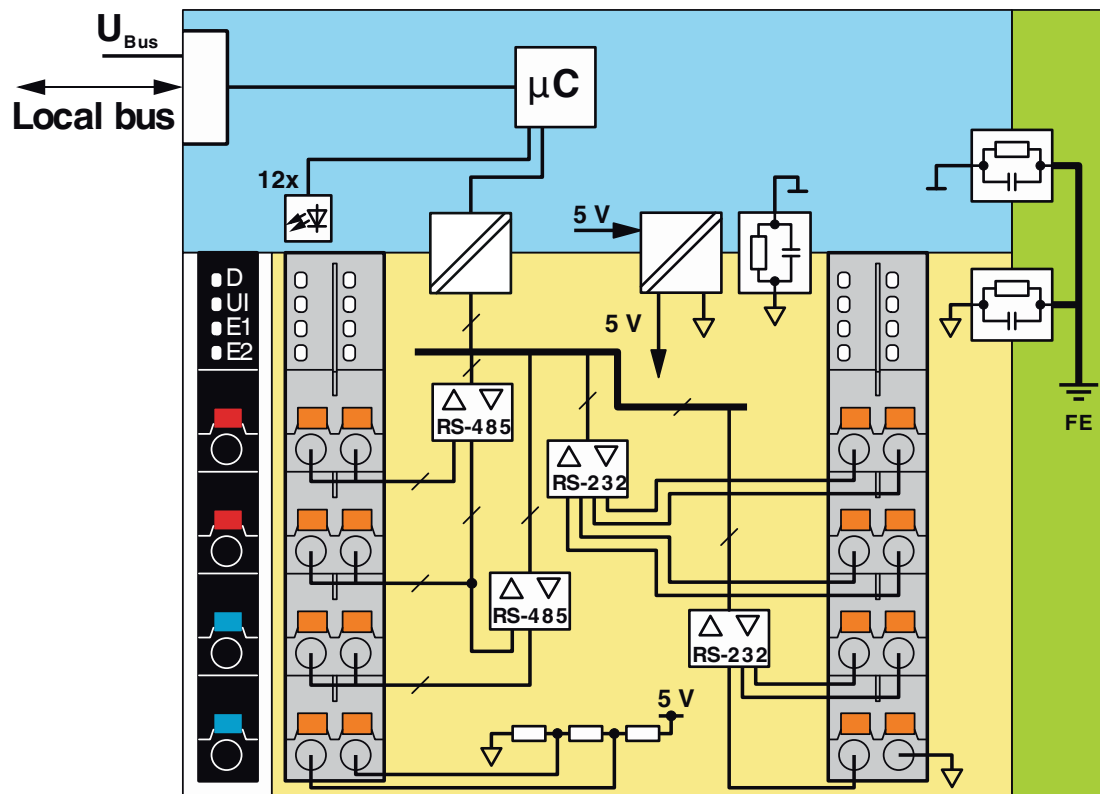
Internal wiring of the terminal points

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2688666

DNV GL
Approval ID: TAA00000DF

LR
Approval ID: LR2480202TA-02

PRS
Approval ID: TE/1020/880590/21

BSH
Approval ID: 840

RINA
Approval ID: ELE008423XG001

ABS
Approval ID: 23-2449604-PDA

cULus Listed
Approval ID: E238705

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 9.0	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: n/a)
SCIP	a323d349-35de-42e4-9a85-8d03e30c52a2

EF3.0 Climate Change

CO2e kg	7.187 kg CO2e

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com