

# AXL P DI16/2 1F - Digital module



1213483

<https://www.phoenixcontact.com/us/products/1213483>

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Axioline P, Digital input module, Digital inputs: 16, 24 V DC, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline P connectors

## Product description

The module is an Axioline P I/O module for use in the Axioline P modular I/O system. The module is a modular I/O device that can be affixed to the Axioline P local bus, to communicate I/O data up to the Axioline P bus coupler, which forms the head of the station. The digital input module collects 24 V DC digital input signals and makes this information available to the bus coupler through the Axioline P local bus. The module is fully hot-swappable and may be removed while under power.

## Your advantages

- 16 digital inputs in accordance with EN 61131-2 type 1 and type 3
- 24 V DC, 2.4 mA
- Connection of sensors in 2-conductor technology
- Can be used under extreme ambient conditions
- Temperature range: -40 °C ... +70 °C
- Hot-swappable

## Commercial data

Item number	1213483
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR06
Product key	DRIP31
GTIN	4063151284657
Weight per piece (including packing)	380 g
Weight per piece (excluding packing)	240 g
Customs tariff number	85389099
Country of origin	US

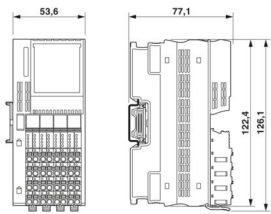
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## Technical data

### Dimensions

Dimensional drawing	
Width	53.6 mm
Height	126.1 mm
Depth	77.1 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
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

### Interfaces

Axioline P local bus	
Number of interfaces	2
Connection method	Bus base module
Transmission speed	100 Mbps

### System properties

Module	
ID code (hex)	none
Input address area	2 Byte
Output address area	0 Byte

### Input data

Digital:	
Input name	Digital inputs
Description of the input	EN 61131-2 types 1 and 3

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Number of inputs	16
Connection method	Push-in connection
Connection technology	2-conductor
Input voltage range "0" signal	-3 V DC ... 5 V DC
Input voltage range "1" signal	11 V DC ... 30 V DC
Nominal input voltage $U_{IN}$	24 V DC
Nominal input current at $U_{IN}$	2.4 mA
Input filter time	3000 $\mu$ s (Default)
	< 200 $\mu$ s
	1000 $\mu$ s
Protective circuit	Polarity reversal protection of the inputs

## Product properties

Product type	I/O component
Product family	Axioline P
Type	block modular
Mounting position	any (no temperature derating)
Scope of supply	including bus base module and Axioline P 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	3.25 W
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## Potentials: Supply voltage ( $U_L$ )

Supply voltage	24 V DC (via bus base module)
Supply voltage range	19.2 V DC ... 30 V DC
Current draw	max. 59 mA (via bus base module)
	typ. 43 mA (via bus base module)
Protective circuit	Surge protection; electronic (35 V, 0.5 s)
	Reverse polarity protection; Polarity protection diode
	Transient protection; Suppressor diode

## Potentials: Axioline P local bus supply ( $U_{BUS}$ )

Supply voltage	5 V DC (via bus base module)
Current draw	max. 135 mA
	typ. 110 mA

## Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply of the local bus ( $U_{BUS}$ ) / functional ground	500 V AC, 60 Hz, 1 min
Test voltage: 5 V supply of the local bus ( $U_{BUS}$ ) / digital inputs	500 V AC, 60 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 60 Hz, 1 min
Test voltage: 24 V supply (I/O) / digital inputs	500 V AC, 60 Hz, 1 min

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Test voltage: Digital inputs / functional ground	500 V AC, 60 Hz, 1 min
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## Connection data

### Connection technology

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

### Axioline P connector

Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross-sections in the "Axioline P: 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
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 2000 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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## Approvals

### ATEX

Identification	II 3G Ex ec IIC T4 Gc
Certificate	DEMKO 20 ATEX 2334X

### IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX UL 20.0002X

### UKCA Ex (UKEX)

Identification	II 3G Ex ec IIC T4 Gc
Certificate	PxCAI22UKEx1052416X

### UL, USA/Canada

Identification	cULus
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Certificate	E238705
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## UL Ex, USA / Canada

Identification	Class I, Division 2, Groups A, B, C, D, T4
	Class I, Zone 2, IIC T4
Certificate	E196811

## CCC / China-Ex

Identification	Ex ec IIC T4 Gc
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## Mounting

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

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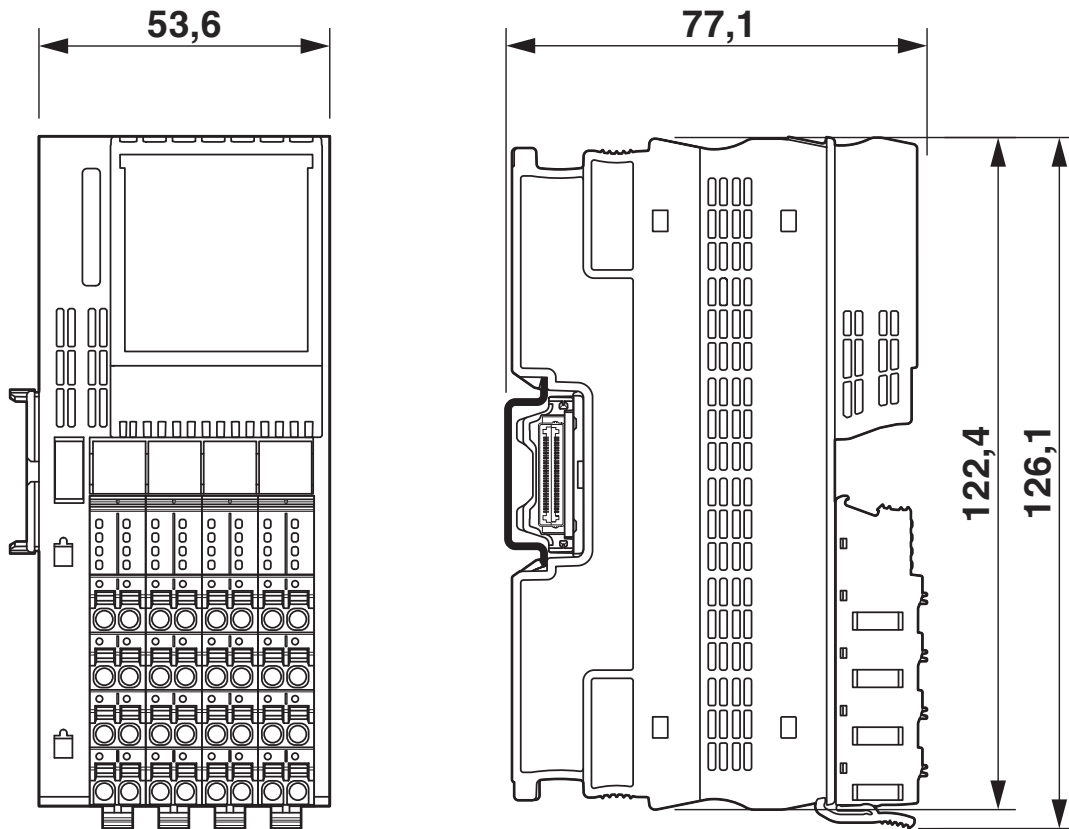


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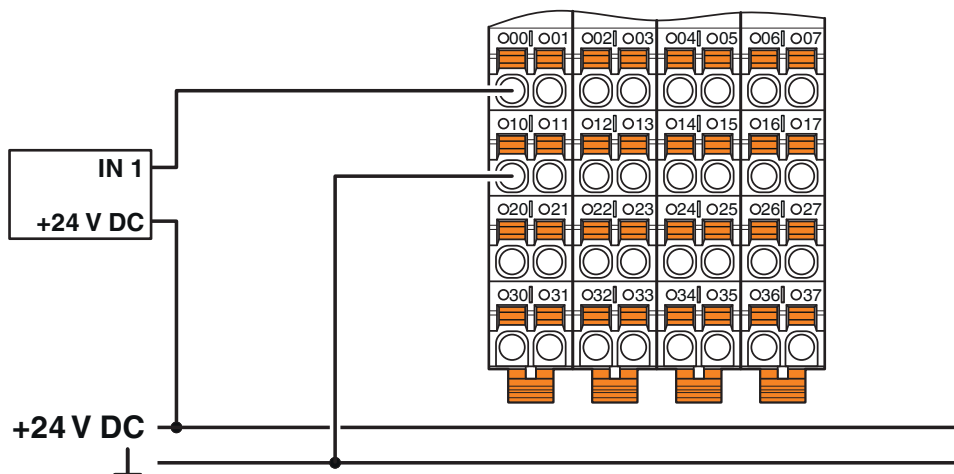
## Drawings

Dimensional drawing



Dimensional drawing

Connection diagram



Connection of sensors when using external busbars

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1213483>



**cULus Listed**

Approval ID: E238705



**IECEX**

Approval ID: IECEX UL 20.0002X



**cUL Listed**

Approval ID: E196811



**UL Listed**

Approval ID: E196811



**ATEX**

Approval ID: DEMKO 20 ATEX 2334X



**CCC**

Approval ID: 2025122309122350

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## Classifications

### ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

### ETIM

ETIM 10.0	EC001599
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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-25
	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	34062752-cf83-4788-9b81-3aa200ef5c55

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