

# AXL F PWM2 1H - Function module



1007352

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Axioline F, Function module, Pulse width modulation; transmission speed in the local bus: 100 Mbps; degree of protection: IP20; Pulse width modulation; Scope of supply: including bus base module and Axioline F connectors

## Product description

The module is designed for use within an Axioline F station. Two channels that operate independently of one another offer the option of pulse width modulation (PWM) for the output signals. The module supports PWM, pulse generator, and push-pull output operating modes.

## Your advantages

- 2 independent channels
- Output of 5 V or 24 V signals
- Push-pull output
- Nominal current per output: 500 mA (at 24 V DC), 10 mA (at 5 V DC)
- Frequency output (0 Hz ... 65535 Hz)
- Frequency resolution can be configured using the divider (1 Hz, 0.1 Hz, 0.01 Hz)
- Pulse width resolution can be configured using the divider (1 ms, 0.1 ms, 0.01 ms)
- Configurable pulse duty factor (0 % ... 100 %)
- Device rating plate stored

## Commercial data

Item number	1007352
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR02
Product key	DRI264
GTIN	4055626478869
Weight per piece (including packing)	171.06 g
Weight per piece (excluding packing)	171.06 g
Customs tariff number	85389091
Country of origin	DE

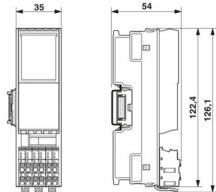
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## Technical data

### 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).

### Notes

#### Note on application

Note on application	Only for industrial use
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### Interfaces

#### Axiline F local bus

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

### System properties

#### Module

Input address area	0 Byte
Output address area	8 Byte
Required parameter data	1 Byte
Required configuration data	6 Byte

### Output data

#### Signal

Output name	PWM outputs
Operating mode	PWM, pulse generator, push-pull output
Connection method	Push-in connection
Connection technology	2-conductor
Number of outputs	2
Frequency range	0 Hz ... 65535 Hz
Pulse duty factor	0 % ... 100 %

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Nominal output voltage	24 V ( $U_O - 1.1$ V)
	5 V DC
Nominal current $I_N$	max. 500 mA (at 24 V DC)
	max. 10 mA (at 5 V DC)
Nominal load, ohmic	max. 12 W (at 24 V DC nominal voltage)
	max. 50 mW (at 5 V DC nominal voltage)
Nominal load, inductive	max. 12 VA (at 24 V DC nominal voltage)
	max. 50 mVA (at 5 V DC nominal voltage)
Nominal load, lamp	max. 6 W (at nominal voltage)
Short-circuit-proof	yes
Short-circuit current	typ. 2.2 A (for approx. 1.2 $\mu$ s, auto-retry after approx. 40 $\mu$ s, 24 V output)
	typ. 24 mA (5 V output)
Transient surge protection	yes

## 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
Special properties	Pulse width modulation

## 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	2.05 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: Supply voltage input $U_O$

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC including all tolerances, including ripple
Current draw	max. 1.1 A
Protective circuit	Surge protection; electronic (35 V, 0.5 s)
	Reverse polarity protection; parallel diode; with external 1 A fuse (for start-up only)

### 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 ( $U_{BUS}$ ) / functional ground	500 V AC, 50 Hz, 1 min

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Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min
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## 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
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)
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## Mounting

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

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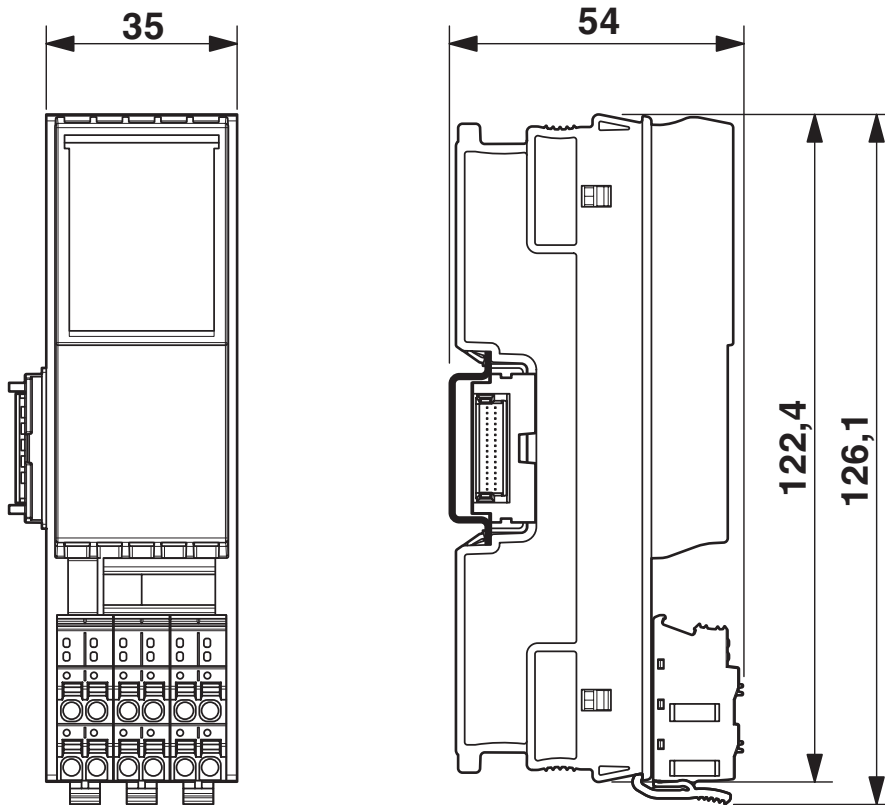
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## Drawings

Dimensional drawing

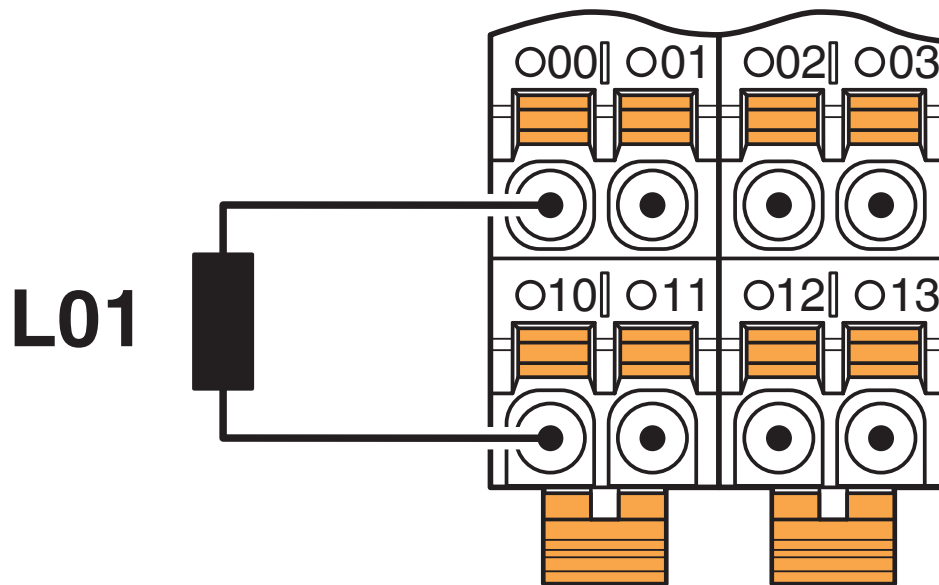


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Connection diagram



Connection example

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## Approvals

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**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)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	c74a2822-23bf-4b46-9ea0-426df5a39fa5

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