

## I/O module - AXL F DO64/1 2F - 2702053

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Axioline F, Digital output module, Digital outputs: 64, 24 V DC, 500 mA, Connection method: 1-wire, Transmission speed in the local bus 100 MBit/s, 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. It is used to output digital signals. The outputs are protected against short circuit and overload.

### Why buy this product

- 64 digital outputs
- 24 V DC, 500 mA
- Connection of actuators in single-wire technology
- Device rating plate stored
- Diagnostic and status indicators

### Key Commercial Data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 STK     |
| Weight per Piece (excluding packing) | 320.000 g |
| Custom tariff number                 | 85389091  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                    |   |
|--------------------|---|
| Width              | 53.6 mm   |
| Height             | 129.9 mm  |
| Depth              | 54 mm   |
| Note on dimensions | The depth is valid when a TH 35-7.5 DIN rail is used (according to EN 60715). |

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### Technical data

#### Ambient conditions

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

#### Connection data

|                                       |   |
|---------------------------------------|---|
| Designation                           | Axioline F connector  |
| Connection method                     | Push-in connection  |
| Note on connection method             | Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual. |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup>   |
| Conductor cross section solid max.    | 1.5 mm <sup>2</sup>   |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup>   |
| Conductor cross section flexible max. | 1.5 mm <sup>2</sup>   |
| Conductor cross section AWG min.      | 24  |
| Conductor cross section AWG max.      | 16  |
| Stripping length                      | 8 mm  |

#### General

|                               |   |
|-------------------------------|---|
| Mounting type                 | DIN rail  |
| Net weight                    | 260 g   |
| Note on weight specifications | with connectors and bus base module                 |
| Diagnostics messages          | Short-circuit / overload of the digital outputs Yes |

#### Interfaces

|                    |                      |
|--------------------|----------------------|
| Designation        | Axioline F local bus |
| Connection method  | Bus base module      |
| Transmission speed | 100 MBit/s           |

#### Axioline potentials

|  |  |
|--|--|
| Communications power $U_{Bus}$         | 5 V DC (via bus base module)                                 |
| Current consumption from $U_{Bus}$     | max. 120 mA  |
| Supply of digital output modules $U_O$ | 24 V DC  |
| Current consumption from $U_O$         | max. 16 A (for parallel supply, provide external protection) |

#### Digital outputs

|             |                 |
|-------------|-----------------|
| Output name | Digital outputs |
|-------------|-----------------|

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## Technical data

### Digital outputs

|                                    |   |
|------------------------------------|---|
| Connection method                  | Push-in connection  |
|                                    | 1-wire  |
| Number of outputs                  | 64  |
| Protective circuit                 | Short-circuit protection, overload protection of the outputs Electronic |
| Output voltage                     | 24 V  |
| Nominal output voltage             | 24 V DC   |
| Maximum output current per channel | 500 mA  |
| Maximum output current per module  | 16 A (external fuse)  |
| Nominal load, inductive            | max. 12 VA (1.2 H, 48 Ω, with nominal voltage)                          |
| Nominal load, lamp                 | max. 12 W (at nominal voltage)  |
| Nominal load, ohmic                | max. 12 W (48 Ω; with nominal voltage)                                  |

### Electrical isolation

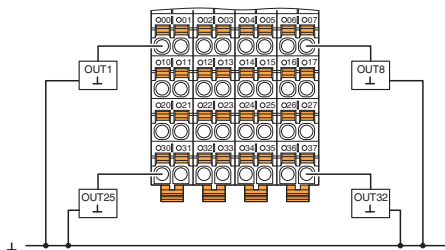
|              |   |
|--------------|---|
| Test section | 5 V communications power (logic), 24 V supply (I/O) 500 V AC 50 Hz 1 min. |
|              | 5 V supply (logic)/functional earth ground 500 V AC 50 Hz 1 min.          |
|              | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min.         |

### Standards and Regulations

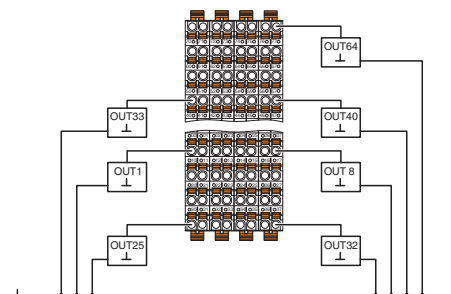
|                  |   |
|------------------|---|
| Mechanical tests | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g |
|                  | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g             |
|                  | Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g  |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1                            |

## Drawings

Connection diagram



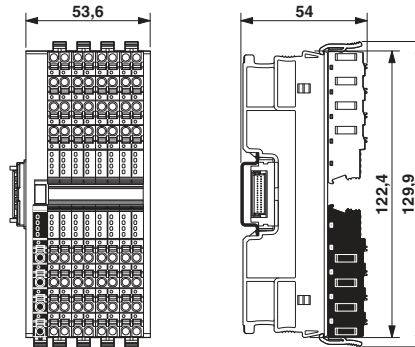
Connection diagram



Connection with 1-wire technology

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Dimensional drawing



## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27242604 |
| eCl@ss 6.0 | 27242604 |
| eCl@ss 8.0 | 27242604 |
| eCl@ss 9.0 | 27242604 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001599 |
|----------|----------|

## Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

## Approval details

|   |
|---|
| UL Listed <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 238705 |
|---|

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### Approvals

cUL Listed  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 238705

cULus Listed 

### Accessories

#### Accessories

#### DIN rail connector

Bus connector - AXL F BS F - 2688129



Axioline F bus base module for housing type F

#### Terminal marking

Zack marker strip - ZB 20,3 AXL UNPRINTED - 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

Zack Marker strip, flat - ZBF 10/5,8 AXL UNPRINTED - 0829580



Zack marker strip, flat, in 10 mm pitch, unprinted, 10-section, for individual labeling with M-PEN 0,8, X-PEN, or CMS-P1-PLOTTER