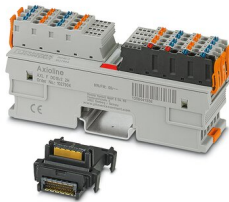


Digital module - AXL F DO16/2 2H

1027904

<https://www.phoenixcontact.com/gb/products/1027904>

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Axioline F, Digital output module, Digital outputs: 16, 24 V DC, 500 mA, connection technology: 2-conductor, 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. It is used to output digital signals. The outputs are protected against short circuit and overload.

Your advantages

- 16 digital outputs
- 24 V DC, 500 mA
- Connection of actuators in 2-conductor technology
- Single-channel diagnostics
- Minimum update time of < 100 μ s
- Device rating plate stored

Commercial Data

| | |
|--------------------------------------|--------------------|
| Item number | 1027904 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | DRI232 |
| Product Key | DRI232 |
| Catalog Page | Page 77 (C-6-2019) |
| GTIN | 4055626523767 |
| Weight per Piece (including packing) | 212.8 g |
| Weight per Piece (excluding packing) | 212.8 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

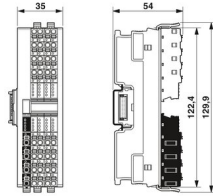
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Technical Data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 35 mm |
| Height | 129.9 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). |

Material specifications

| | |
|-------|-------------------------|
| Color | traffic grey A RAL 7042 |
|-------|-------------------------|

Interfaces

Axioline 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 | 2 Byte |
| Required parameter data | 1 Byte |
| Required configuration data | 6 Byte |

Output data

Digital

| | |
|-----------------------------------|--|
| Output name | Digital outputs |
| Connection method | Push-in connection |
| Connection technology | 2-conductor |
| Number of outputs | 16 |
| Protective circuit | Short-circuit protection, overload protection of the outputs; electronic |
| Output voltage | 24 V DC |
| Maximum output current per module | 8 A (provide external protection) |
| Nominal output voltage | 24 V DC |

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| | |
|--|--|
| Output voltage when switched off | max. 1 V |
| Output current when switched off | max. 300 μ A |
| 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) |
| Switching frequency | max. 10000 per second (with at least 50 mA load current) |
| | max. 1 per second (with inductive load) |
| | max. 16 per second (with nominal lamp load) |
| Reverse voltage resistance to short pulses | limited protection up to 0.5 A for 1 s |
| Behavior with overload | Shutdown with automatic restart |
| Behavior with inductive overload | Output can be destroyed |

Product properties

| | |
|-------------------|---|
| Type | block modular |
| Product type | I/O component |
| Mounting position | any (no temperature derating) |
| Scope of delivery | 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 | 1.6 W |
|---|-------|

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

| | |
|-------------------|------------------------------|
| Supply voltage | 5 V DC (via bus base module) |
| Current draw | max. 60 mA |
| Power consumption | max. 300 mW |

Potentials: Supply for digital output modules (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. 8 A (provide external protection) |
| Power consumption | max. 240 W (of which 1.3 W constitute internal losses) |
| Protective circuit | Surge protection; electronic (35 V, 0.5 s) |
| | Reverse polarity protection; parallel diode; with external 5 A fuse (only for commissioning) |

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

Digital module - AXL F DO16/2 2H



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| | |
|----------------------------------|---|
| Connection method | Push-in connection |
| Conductor cross section solid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 1.5 mm ² |
| 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 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible | 0.2 mm ² ... 1.5 mm ² |
| 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) |

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27242604 |
| ECLASS-10.0.1 | 27242604 |
| ECLASS-11.0 | 27242604 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC001599 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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