

AXL E IOL DO8 M12 6P - Digital module



2702659

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Axioline E, Digital output device, IO-Link ports Class B: 1, connection method: M12 connector, A-coded, connection technology: 5-conductor, Digital outputs: 8, 24 V DC, 500 mA, connection technology: 3-conductor, Plastic housing, degree of protection: IP65/IP67

Product description

The Axioline E digital output device is connected to an IO-Link master via an IO-Link B-port. It is used to output digital signals via IO-Link. Use within different networks is possible via the IO-Link master.

Your advantages

- Connection to an IO-Link master with M12 connector (A-coded, 4-pos.)
- Type B port with additional power supply
- IO-Link specification V1.1.2
- Connection up to 8 outputs with M12 connectors (A-coded, 5-pos.)
- Diagnostic and status indicators
- Short-circuit and overload protection of the sensor supply
- Device rating plate stored
- IP65/IP67 degree of protection

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2702659 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR04 |
| Product key | DRI7DF |
| GTIN | 4055626279695 |
| Weight per piece (including packing) | 297.4 g |
| Weight per piece (excluding packing) | 302 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing | |
| Width | 60 mm |
| Height | 141 mm |
| Depth | 20 mm |
| Note on dimensions | The height is 170 mm including fixing clips. The depth is 30 mm including the connector. |

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 |
|----------|---|

Material specifications

| | |
|------------------|--------|
| Housing material | Pocan® |
|------------------|--------|

Input data

IO-Link

| | |
|-----------------------------|------------------------|
| Number of ports | 1 |
| Connection method | M12 connector, A-coded |
| Connection technology | 5-conductor |
| Port type | Class B |
| Specification | V1.1.2 |
| Reverse polarity protection | yes |
| Transmission speed | 230.4 kbps (COM3) |
| Cycle Time | < 1 ms |
| Amount of process data | 16 bit (Output data) |

Output data

Digital:

| | |
|-------------------|-----------------|
| Output name | Digital outputs |
| Connection method | M12 connector |

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| | |
|---|--|
| Connection technology | 3-conductor |
| Number of outputs | 8 |
| Protective circuit | Overload protection, short-circuit protection of outputs; Electronic |
| Output voltage | 24 V DC |
| Limitation of the voltage induced on circuit interruption | -28 V ... -15 V |
| Output current | max. 500 mA (per port) max. 4 A (per device) |
| Nominal output voltage | 24 V DC (from voltage U_A) |
| Load min. | 10 k Ω |
| 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. 1000 per second 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 | Auto restart |
| Behavior with inductive overload | Output can be destroyed |
| Signal delay | max. 100 μ s (when switched on) max. 100 μ s (when switched off, with at least 50 mA load current) |
| Overcurrent shut-down | as of 0.7 A |
| Output current with ground connection interrupt when switched off | < 1 mA |

Product properties

| | |
|--------------------|-----------------|
| Product type | I/O component |
| Product family | Axioline E |
| Type | Stand-alone |
| Special properties | Plastic housing |

Electrical properties

Supply: IO-Link

| | |
|--------------------------------|---|
| Designation | IO-Link port supply (L+) |
| Nominal voltage for I/O supply | 24 V DC (Provided via the IO-Link interface of the IO-Link master.) |
| Supply voltage range | 20 V DC ... 30 V DC (including all tolerances, including ripple) |
| Nominal current per device | approx. 15 mA |
| Permissible cable length | max. 20 m |
| Protective circuit | Reverse polarity protection; yes |

Supply: Actuators

| | |
|----------------|-------------------------------|
| Designation | Supply of actuators (U_A) |
| Supply voltage | 24 V DC (Nominal voltage) |

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| | |
|----------------------|--|
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current consumption | max. 500 mA (per port) |
| | max. 4 A (Device dependent; observe the current of the IO-Link master that is made available via U _A .) |

Electrical isolation/isolation of the voltage ranges

| | |
|--|------------------------|
| Test voltage: 24 V supply (logic supply)/24 V supply (actuator supply) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 24 V supply (logic supply) / FE | 500 V AC, 50 Hz, 1 min |
| Test voltage: 24 V supply (actuator supply)/FE | 500 V AC, 50 Hz, 1 min |

Connection data

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|-------------------------------|---|
| Connection method | M12 connector |
| Note on the connection method | in accordance with IEC 61076-2-101, M12 connection technology |

Environmental and real-life conditions

Ambient conditions

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|--|---|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Degree of protection | IP65/IP67 |
| 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) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 5 % ... 95 % |
| Permissible humidity (storage/transport) | 5 % ... 95 % |

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

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|---------------|----------------|
| Mounting type | Screw mounting |
|---------------|----------------|

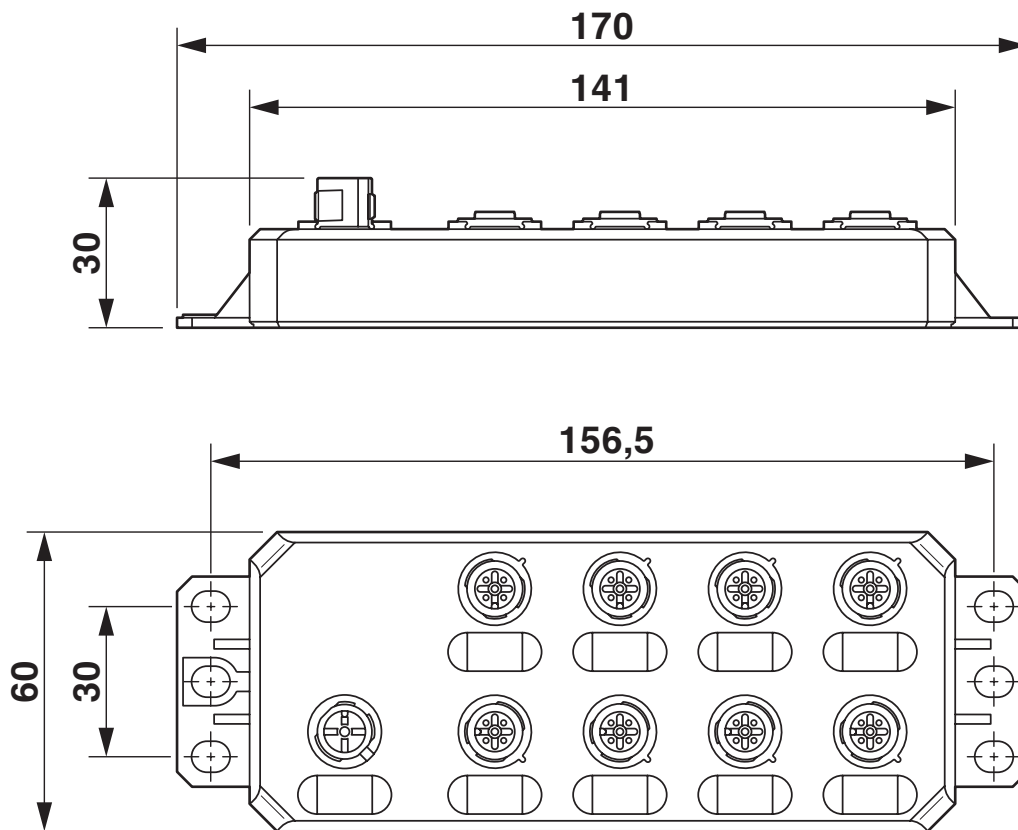
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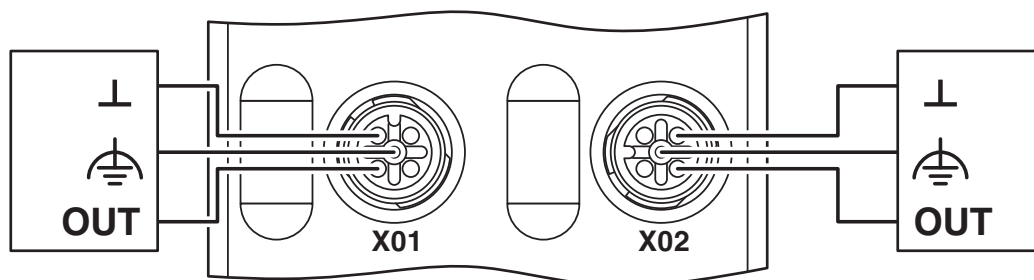
Drawings

Dimensional drawing



Dimensions (in mm)

Connection diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702659>



cULus Listed

Approval ID: E238705



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242604 |
| ECLASS-15.0 | 27242604 |

ETIM

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|-----------|----------|
| ETIM 10.0 | EC001599 |
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UNSPSC

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|-------------|----------|
| UNSPSC 21.0 | 32151600 |
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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 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) |
| SCIP | e8612b1c-0818-441a-8f68-42dd81113a4a |

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