

# AXL E IOL DO8 M12 6P - Digital module



2702659

<https://www.phoenixcontact.com/gb/products/2702659>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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                            | DRI7DF              |
| Product key                          | DRI7DF              |
| Catalog page                         | Page 180 (C-6-2019) |
| GTIN                                 | 4055626279695       |
| Weight per piece (including packing) | 297.4 g             |
| Weight per piece (excluding packing) | 296.3 g             |
| Customs tariff number                | 85176200            |
| Country of origin                    | DE                  |

# AXL E IOL DO8 M12 6P - Digital module



2702659

<https://www.phoenixcontact.com/gb/products/2702659>

## 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

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Material specifications

|                  |                          |
|------------------|--------------------------|
| Housing material | Pocan®                   |
| Color            | anthracite grey RAL 7016 |

### 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                 |
| Process data update         | < 1 ms                 |
| Amount of process data      | 16 bit (Output data)   |

### Output data

#### Digital:

|                       |                 |
|-----------------------|-----------------|
| Output name           | Digital outputs |
| Connection method     | M12 connector   |
| Connection technology | 3-conductor     |

# AXL E IOL DO8 M12 6P - Digital module



2702659

<https://www.phoenixcontact.com/gb/products/2702659>

|   |  |
|---|--|
| 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)<br>max. 4 A (per device)  |
| Nominal output voltage  | 24 V DC (from voltage $U_A$ )  |
| Load min.   | 10 k $\Omega$  |
| Output voltage when switched off                                  | max. 1 V   |
| Output current when switched off                                  | max. 300 $\mu$ A   |
| Nominal load, inductive   | max. 12 VA (1.2 H, 48 $\Omega$ , with nominal voltage)   |
| Nominal load, lamp  | max. 12 W (at nominal voltage)   |
| Nominal load, ohmic   | max. 12 W (48 $\Omega$ , with nominal voltage)   |
| Switching frequency   | max. 1000 per second<br>max. 1 per second (with inductive load)<br>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 $\mu$ s (when switched on)<br>max. 100 $\mu$ 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     | Axiline 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)  |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |

# AXL E IOL DO8 M12 6P - Digital module



2702659

<https://www.phoenixcontact.com/gb/products/2702659>

|  |  |
|--|--|
| 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 <sub>A</sub> .) |
| 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

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

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

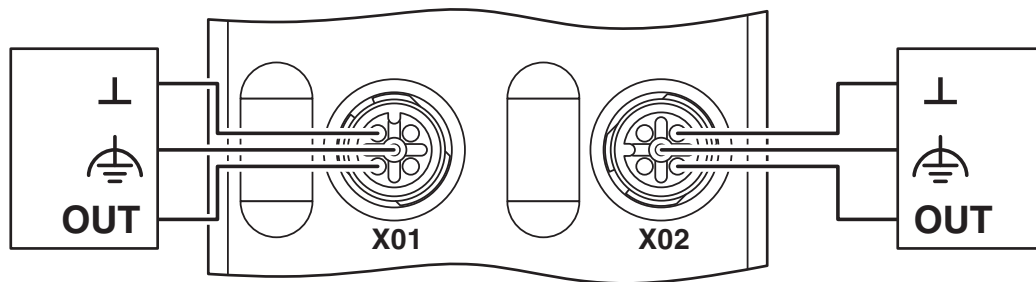
|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

## Mounting

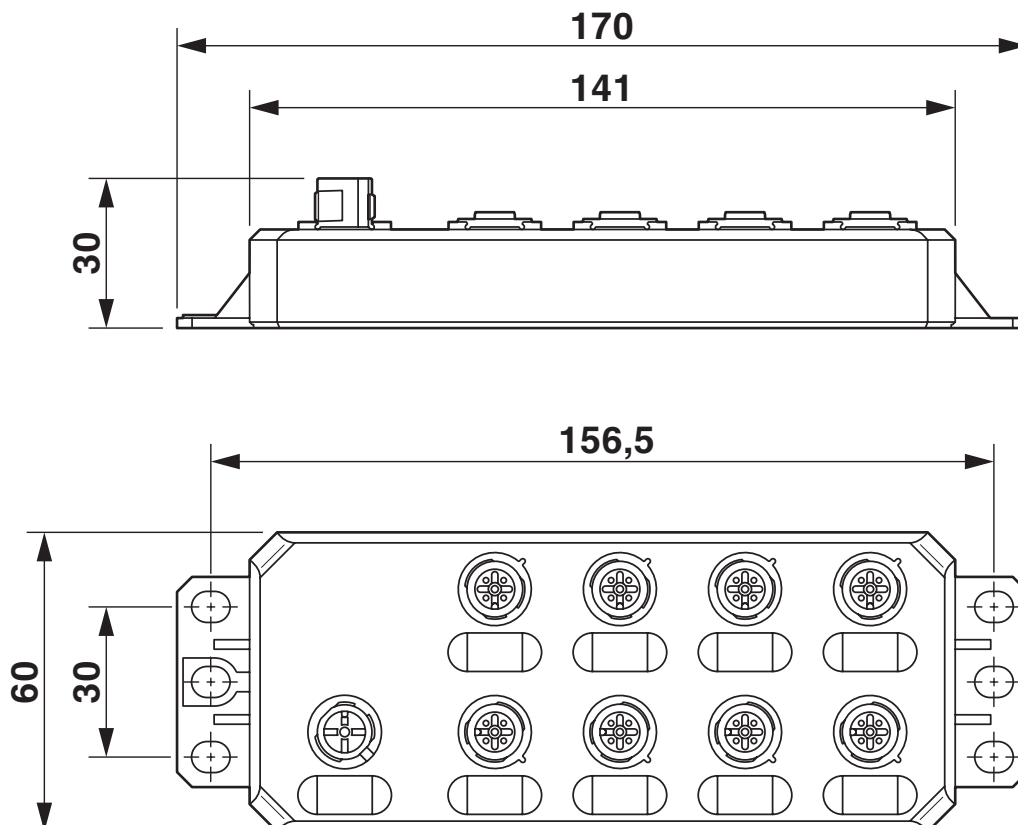
|               |               |
|---------------|---------------|
| Mounting type | Wall mounting |
|---------------|---------------|

## Drawings

Connection diagram



Dimensional drawing



Dimensions (in mm)

# AXL E IOL DO8 M12 6P - Digital module



2702659

<https://www.phoenixcontact.com/gb/products/2702659>

## Approvals

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



**UL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705



**UL Listed**

Approval ID: FILE E 238705

# AXL E IOL DO8 M12 6P - Digital module



2702659

<https://www.phoenixcontact.com/gb/products/2702659>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27242604 |
| ECLASS-12.0 | 27242604 |
| ECLASS-13.0 | 27242604 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001599 |
|----------|----------|

### UNSPSC

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

2702659

<https://www.phoenixcontact.com/gb/products/2702659>

## 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 |

# AXL E IOL DO8 M12 6P - Digital module

2702659

<https://www.phoenixcontact.com/gb/products/2702659>

## Accessories

### PROT-M12 - Screw plug

1680539

<https://www.phoenixcontact.com/gb/products/1680539>



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

---

### UCT-EM (7X10) - Snap-in markers

0830765

<https://www.phoenixcontact.com/gb/products/0830765>



Snap-in markers, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 7 x 10 mm, Number of individual labels: 30

# AXL E IOL DO8 M12 6P - Digital module



2702659

<https://www.phoenixcontact.com/gb/products/2702659>

## IOL-CONF - Configuration and diagnostic software

1083065

<https://www.phoenixcontact.com/gb/products/1083065>



IOL-CONF is a browser-based configuration software tool for the easy startup of IO-Link masters and IO-Link devices

---

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)