

# Digital module - AXL E IOL DI8 M12 6P



2702658

<https://www.phoenixcontact.com/us/products/2702658>

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Axioline E digital input device via IO-Link in plastic housing with an IO-Link A-port and eight inputs, 24 V DC, 4-conductor technology, M12 fast connection technology

## Product Description

The Axioline E digital input device is connected to an IO-Link master via an IO-Link A port. It is used to acquire 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 A port
- IO-Link specification V1.1.2
- Connection of up to 8 inputs 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                          | 2702658                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to Order (non-returnable) |
| Sales Key                            | C21                            |
| Product Key                          | DRI7DF                         |
| Catalog Page                         | Page 180 (C-6-2019)            |
| GTIN                                 | 4055626279671                  |
| Weight per Piece (including packing) | 297.7 g                        |
| Weight per Piece (excluding packing) | 297.7 g                        |
| Customs tariff number                | 85176200                       |
| Country of origin                    | DE                             |

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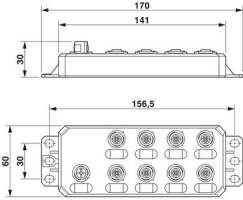


2702658

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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

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

### System properties

|                        |                     |
|------------------------|---------------------|
| IO-Link                |                     |
| Amount of process data | 16 Bit (Input data) |

### Input data

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| Digital                           |                                                                |
| Input name                        | Digital inputs                                                 |
| Description of the input          | EN 61131-2 types 1 and 3                                       |
| Number of inputs                  | 8                                                              |
| Cable length                      | max. 30 m (to the sensor)                                      |
| Connection method                 | M12 connector                                                  |
| Connection technology             | 4-conductor                                                    |
| Input voltage range "0" signal    | -3 V ... 5 V DC                                                |
| Input voltage range "1" signal    | 11 V DC ... 30 V DC                                            |
| Nominal input voltage $U_{IN}$    | 24 V DC                                                        |
| Nominal input current at $U_{IN}$ | typ. 2.4 mA                                                    |
| Input filter time                 | 1 ms                                                           |
| Protective circuit                | Overload protection, short-circuit protection of sensor supply |

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|  |                                            |
|--|--------------------------------------------|
|  | Polarity reversal protection of the inputs |
|--|--------------------------------------------|

## IO-Link

|                       |                        |
|-----------------------|------------------------|
| Number of ports       | 1                      |
| Connection method     | M12 connector, A-coded |
| Connection technology | 3-conductor            |
| Port type             | Class A                |

## Product properties

|              |               |
|--------------|---------------|
| Type         | Stand-Alone   |
| Product type | I/O component |

## 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.) |
| Nominal current per device     | approx. 40 mA (15 mA no load + current consumption sensors)         |
| Protective circuit             | Reverse polarity protection; yes                                    |
| Permissible cable length       | max. 20 m                                                           |

### Supply:

|                     |                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Designation         | Power supply for sensors                                                                                                           |
| Current consumption | max. 1.28 A (per port)<br>max. 1.28 A (Device dependent; observe the current of the IO-Link master that is made available via L+.) |

## Connection data

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

## 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

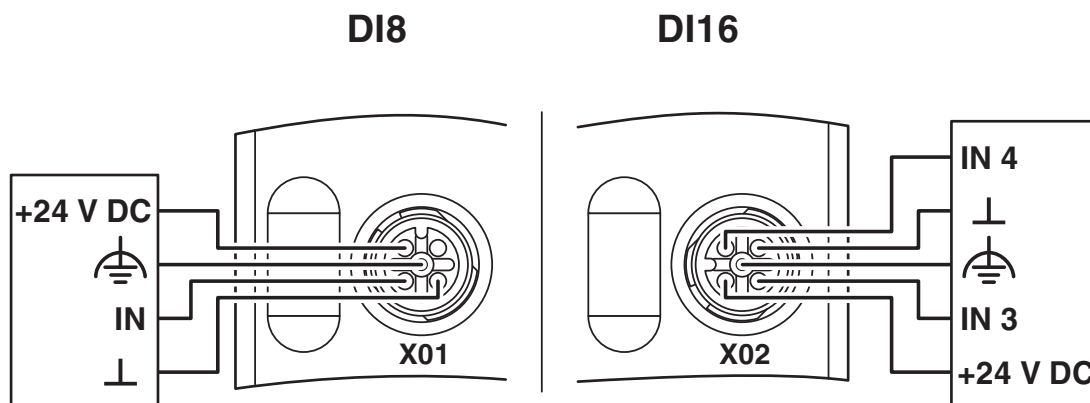
|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

## Mounting

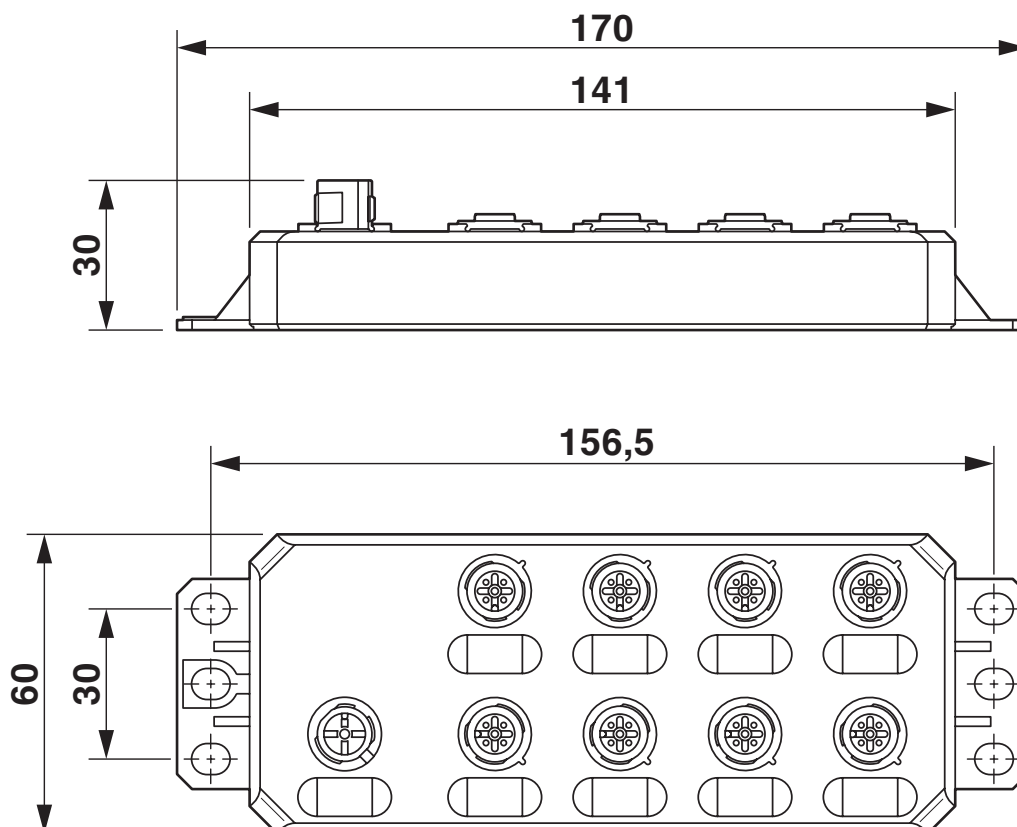
|               |               |
|---------------|---------------|
| Mounting type | Wall mounting |
|---------------|---------------|

## Drawings

Connection diagram



Dimensional drawing



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## Approvals



### UL Listed

Approval ID: FILE E 238705

|  | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 125 V                 | 1 A                   | -                 | -                           |



### cUL Listed

Approval ID: FILE E 238705

|  | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 125 V                 | 1 A                   | -                 | -                           |

cULus Listed

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

Environmental Product Compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                               |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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## Accessories

### Screw plug

Screw plug - PROT-M12 - 1680539

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



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

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### Snap-in markers

Snap-in markers - UCT-EM (7X10) - 0830765

<https://www.phoenixcontact.com/us/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

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## Network management software

Network management software - IOL-CONF - 1083065

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



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

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