

# IOA DI/DO/BFI/DS/1.0A/EX - Input/output module



2906600

<https://www.phoenixcontact.com/us/products/2906600>

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Fuse module for VIP I/O marshalling base elements with replaceable 1 A fuses in the field device supply path and in the signal path. Integrated test points and a disconnect knife allow uninterrupted signal measurement. HART transparent.

## Product description

Fuse module with replaceable 1 A fuse in the supply path and in the signal path. This enables field devices to be supplied with voltage directly from the base element. In addition, the I/O board is protected against short circuits in the signal lines. If a fuse fails, this is indicated by an LED. Test points and a disconnect knife are available in the signal path for uninterrupted signal measurement. The module is installed on a corresponding VIP I/O-Marshalling base element by means of plug-in contact. Installation in zone 2, "ec" type of protection is permitted.

## Your advantages

- Signal line blown fuse indication
- Two-stage progressive release allowing for voltage checks with field-powered devices
- Channel for marking accessories
- Replaceable TE5-style fusing
- Signal disconnect with test points
- Integrated keying reduces possible user error during replacement
- 24 V internal marshalling option for connected field device with blown fuse indication

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2906600                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C480                           |
| Product key                          | DK115Z                         |
| GTIN                                 | 4055626295268                  |
| Weight per piece (including packing) | 72.5 g                         |
| Weight per piece (excluding packing) | 24.1 g                         |
| Customs tariff number                | 85371098                       |
| Country of origin                    | US                             |

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## Technical data

### Product properties

|                 |                       |
|-----------------|-----------------------|
| Product type    | Interface module      |
| Product family  | VIP I/O-Marshalling   |
| No. of channels | 1                     |
| Operating mode  | 100% operating factor |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

### Electrical properties

|   |                    |
|---|--------------------|
| Max. operating voltage $U_{max}$          | 30 V               |
| Max. permissible current                  | 1 A (fuse limited) |
| Nominal voltage $U_N$                     | 24 V DC            |
| Max. current carrying capacity per branch | 1 A (fuse limited) |

### Output data

|                         |         |
|-------------------------|---------|
| Nominal supply voltage  | 24 V DC |
| Continuous load current | 1 A     |

### Connection data

#### Control circuits

|                       |           |
|-----------------------|-----------|
| Connection method     | Pin strip |
| Number of connections | 1         |
| Number of positions   | 13        |

### Ex data

#### Safety data

|                           |           |
|---------------------------|-----------|
| Input voltage $U_i$       | 30 V      |
| Input current $I_i$       | 1 A       |
| Inductance $L_i$          | 0 mH      |
| Capacitance $C_i$         | 0 $\mu$ F |
| Max. output voltage $U_o$ | $U_i$     |
| Max. output current $I_o$ | $I_i$     |
| Max. output power $P_o$   | $P_i$     |

### Interfaces

#### Data communication (bypass)

|                     |                   |
|---------------------|-------------------|
| HART function       | HART transparency |
| Protocols supported | HART              |

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## Signaling

|                        |                        |
|------------------------|------------------------|
| Status display         | no                     |
| Status display present | yes, if the fuse fails |

## Dimensions

### Item dimensions

|        |         |
|--------|---------|
| Width  | 10.3 mm |
| Height | 64.2 mm |
| Depth  | 72.9 mm |

## Material specifications

|  |                 |
|--|-----------------|
| Color                                  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0              |

## Environmental and real-life conditions

### Ambient conditions

|   |                               |
|---|-------------------------------|
| Degree of protection                    | IP20                          |
| Ambient temperature (operation)         | -40 °C ... 75 °C              |
| Ambient temperature (storage/transport) | -40 °C ... 75 °C              |
| Altitude                                | ≤ 2000 m                      |
| Permissible humidity (operation)        | 0 % ... 95 % (non-condensing) |

## Approvals

### ATEX

|                |                          |
|----------------|--------------------------|
| Identification | Ex II 3G Ex ec IIC T4 Gc |
| Certificate    | JSHP 24ATEX0049X         |

### IECEX

|                |                    |
|----------------|--------------------|
| Identification | Ex ec IIC T4 Gc    |
| Certificate    | IECEX JSH 24.0011X |

### UKEX

|                |                         |
|----------------|-------------------------|
| Identification | Ⓔ II 3G Ex ec IIC T4 Gc |
| Certificate    | PxCIF23UKEX2906598X     |

### UL, USA/Canada

|                |                                       |
|----------------|---------------------------------------|
| Identification | Class I, Div. 2, Groups A, B, C, D T4 |
|                | Class I, Zone 2, IIC T4               |

### CSA, USA/Canada

|                |                                       |
|----------------|---------------------------------------|
| Identification | Class I, Div. 2, Groups A, B, C, D T4 |
|                | Class I, Zone 2, AEx nA IIC T4 Gc     |
|                | Ex nA IIC T4 Gc                       |

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## Standards and regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | IEC 60664    |
|                       | DIN EN 50178 |

## Mounting

|                   |     |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

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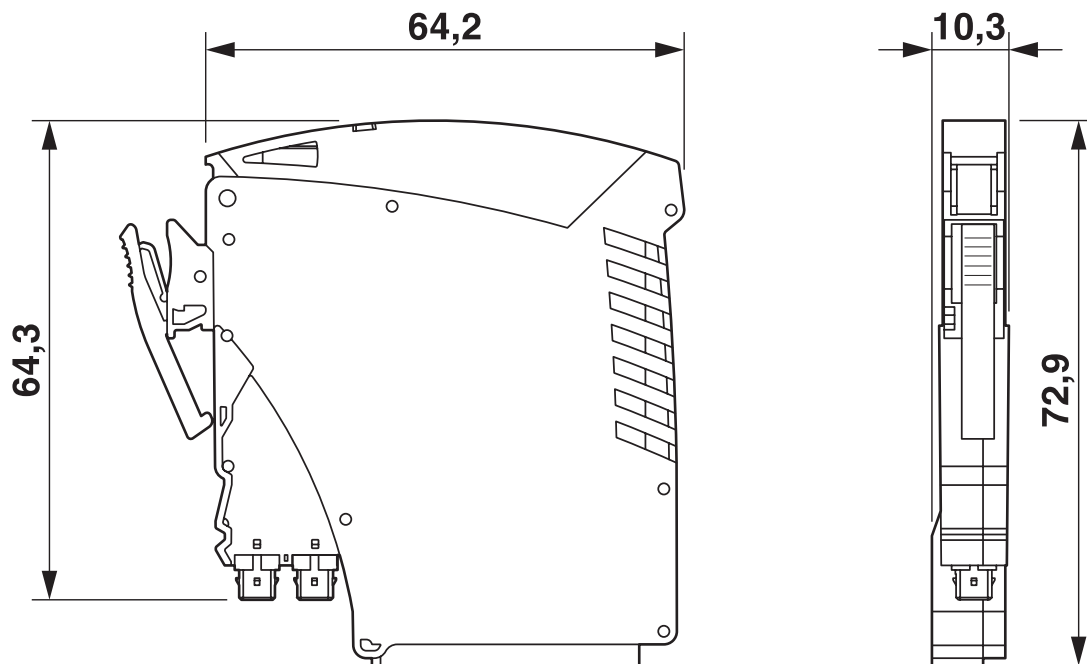


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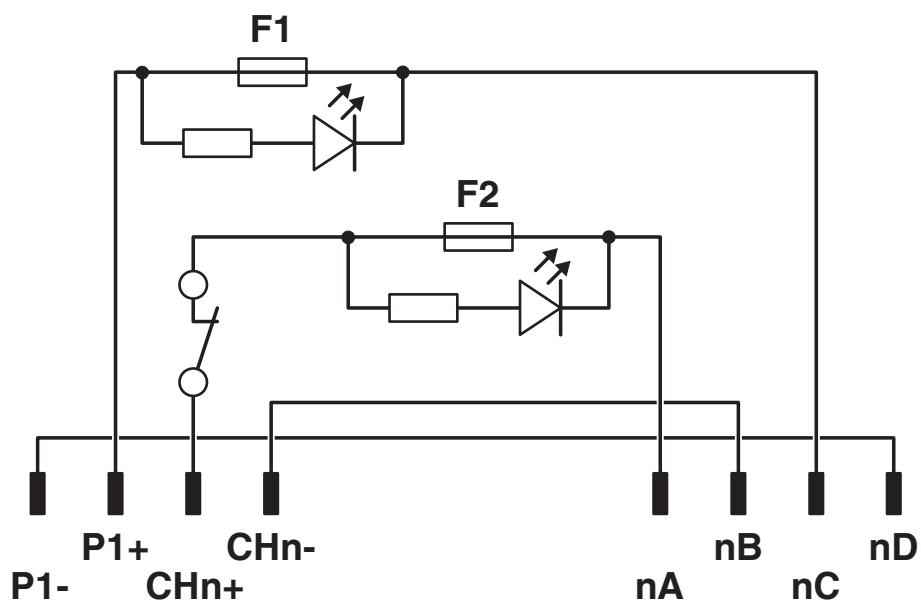
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## Drawings

Dimensional drawing



Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906600>

### Functional Safety

Approval ID: PHO 16-09-035



### IECEX

Approval ID: IECEX JSP 24.0011X



### CSA

Approval ID: 80071103



### CSAus

Approval ID: 80071103



### cULus Listed

Approval ID: E196811-201707007

### ATEX

Approval ID: JSHP 24 ATEX 0049X

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 6(c), 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                                | e06ecdcd-2e91-4dde-923b-d0ee8a45b012 |

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