

IB IL 24 PSDOR 4-F-PAC - Safety module

2700563

<https://www.phoenixcontact.com/us/products/2700563>



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Safety-related distributed relay output module, IP20 protection, for the PROFIsafe system. The module has 4 safe relay outputs, each with two contacts. The output states are mirrored for diagnostic purposes.

Product description

The safety module is an output module from the Inline product range, designed for use in a PROFIsafe system. The safety module can be used as part of an Inline station at any point within a PROFIsafe Inline system. The transmission speed can be set to 500 kbaud or 2 Mbaud on the safety module using a switch. One transmission speed must be used consistently within a station. The module has four safe relay outputs, each with two relay contacts. The output states are mirrored for diagnostic purposes.

Your advantages

- SIL 3 in accordance with EN IEC 62061
- SIL 3 according to IEC/EN 61508
- PL e in accordance with EN ISO 13849-1

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2700563 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | DNA432 |
| GTIN | 4046356583169 |
| Weight per piece (including packing) | 449.2 g |
| Weight per piece (excluding packing) | 449.2 g |
| Country of origin | DE |

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Technical data

Dimensions

| | |
|--------------------|--------------------|
| Width | 73.2 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |
| Note on dimensions | Housing dimensions |

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Interfaces

Inline local bus

| | |
|--------------------|-------------------------------------|
| No. of channels | 2 |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps / 2 Mbps (can be switched) |

System properties

Module

| | |
|-------------------|-----|
| ID code (dec.) | 175 |
| ID code (hex) | AF |
| Length code (hex) | 04 |
| Length code (dec) | 04 |

Output data

Relay

| | |
|------------------------|---|
| Number of outputs | 4 (Safety relays with 2 floating contacts each) |
| Connection method | Spring-cage connection |
| Contact switching type | N/O contact |

Product properties

| | |
|----------------|-------------------|
| Product type | I/O component |
| Product family | Inline |
| Application | Functional safety |
| Type | PROFIsafe |
| | modular |

Electrical properties

| | |
|---|--------|
| Maximum power dissipation for nominal condition | 8.7 W |
| Transmission medium | Copper |

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Potentials: Communications power (U_L)

| | |
|----------------|----------------------------|
| Supply voltage | 7.5 V DC (see safety data) |
| Current draw | max. 360 mA |

Potentials: Main circuit supply (U_M)

| | |
|----------------------|--|
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V DC ... 30 V DC (including ripple) |
| Current draw | typ. 30 mA |

Potentials: Segment circuit supply (U_S)

| | |
|----------------|------|
| Supply voltage | 24 V |
|----------------|------|

Supply: Module electronics

| | |
|----------------------|------------------------------|
| Supply voltage | 24 V DC (via voltage jumper) |
| Supply voltage range | 19.2 V DC ... 30 V DC |

Electrical isolation/isolation of the voltage ranges

| | |
|--|-------------------------|
| Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 7.5 V supply (bus logic)/24 V supply (U_M , U_S), GND, clock outputs, relay outputs, FE | 500 V AC, 50 Hz, 1 min |
| Test voltage: 24 V supply (U_M , U_S), GND, clock outputs/7.5 V supply (bus logic), relay outputs | 500 V AC, 50 Hz, 1 min |
| Test voltage: COMBICON X3 relay outputs/COMBICON X4 relay outputs, Inline connector relay outputs, 7.5 V supply (bus logic), 24 V supply (U_M , U_S), GND, clock outputs, FE | 2500 V AC, 50 Hz, 1 min |
| Test voltage: COMBICON X4 relay outputs/COMBICON X3 relay outputs, Inline connector relay outputs, 7.5 V supply (bus logic), 24 V supply (U_M , U_S), GND, clock outputs, | 2500 V AC, 50 Hz, 1 min |

Connection data

Connection technology

| | |
|-----------------|------------------|
| Connection name | Inline connector |
| pluggable | yes |

Conductor connection

| | |
|----------------------------------|---|
| Connection method | Spring-cage connection |
| 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 |

Inline connector

| | |
|-----------------------------------|---|
| Connection method | Spring-cage connection |
| 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 |

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Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Degree of protection | IP20 |
| Air pressure (operation) | 80 kPa ... 108 kPa (up to 2000 m above sea level) |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (up to 3500 m above sea level) |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.) |
| Permissible humidity (storage/transport) | 10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.) |

Standards and regulations

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

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2700563>

PROFIsafe

Approval ID: Z20083

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Classifications

ECLASS

| | |
|-------------------|----------|
| ECLASS-13.0 | 27242604 |
| ECLASS-15.0 | 27242604 |
| ECLASS-15.0 ASSET | 27250101 |

ETIM

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

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 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 | a9bc7f19-379d-47ec-b007-05f3863bb403 |

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