

# 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 61508/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

## Technical data

### Dimensions

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

### 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

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

### Electrical properties

Maximum power dissipation for nominal condition	8.7 W
Transmission medium	Copper

#### Potentials: Communications power ( $U_L$ )

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

#### Potentials: Main circuit supply ( $U_M$ )

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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
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## 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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 16

### Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 16

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20

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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)
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## Mounting

Mounting type	DIN rail mounting
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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC001599
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### UNSPSC

UNSPSC 21.0	32151600
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## 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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