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

2700563

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CRA-READY



Shows the IB IL PSDOR 4-PAC version

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

ELEKTROGERÄTE RÜCKNAHME

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

Notes

Note on application	Only for industrial use
Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	yellow (RAL 1018)
Material	PBT
Flammability rating according to UL 94	V-0

Interfaces

Inline local bus

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

System properties

Programming data

Length code (hex)	04
ID code (dec.)	175
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
Nominal output voltage	24 V DC (Inline connector)
	250 V AC/DC (COMBICON connector)
Output voltage range	5 V AC/DC ... 30 V AC/DC (Inline connector)

	5 V AC/DC ... 250 V AC/DC (COMBICON connector)
Output current	max. 4 A (Inline connector, pro contact, observe derating)
	max. 6 A (COMBICON connector, pro contact, observe derating)

Product properties

Product type	I/O component
Product family	Inline
Application	Functional safety
	PROFIsafe
Type	modular
Special properties	The product is being prepared for compliance with the Cyber Resilience Act (CRA)

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)

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

Inline connector

Connection method	Spring-cage connection
pluggable	yes
Conductor cross-section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section AWG	24 ... 16

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)

Characteristics

Safety data: EN ISO 13849

Performance level (PL)	max. e (two channel; dependent in parameterization and wiring)

Approvals

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

PROFIsafe
Approval ID: Z20083

TUEV RH FS
Approval ID: 968/EZ650.17/26

Classifications

ECLASS

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

ETIM

ETIM 10.0	EC001599

UNSPSC

UNSPSC 21.0	32151600

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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