

Extension module - PSR-SCP- 24DC/TS/SDOR4/4X1 - 2986096

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PSR-TRISAFE-M relay output extension module with 4 safe relay output contacts (choice of 4 single-channel or 2 two-channel relay contacts), 4 alarm outputs; up to SILCL 3, Cat.4/PLe, SIL 3, EN 50156, plug-in screw connection terminal blocks



Key commercial data

package_quantity	1
GTIN	4046356536554

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

Nominal input voltage U_N	24 V DC (via PSR-TBUS)
Input voltage range in reference to U_N	0.85 ... 1.1
Typical input current at U_N	120 mA
Protective circuit	Surge protection Suppressor diode
Status display	2 LEDs (green, red)

Output data

Contact type	4 enabling current paths
Contact type	4 alarm outputs
Contact material	AgCuNi, + 0.2 μ m Au
Minimum switching voltage	5 V AC/DC

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Output data

Maximum switching voltage	250 V AC
Maximum switching voltage	24 V DC
Limiting continuous current	4 A (see derating curve)
Inrush current, minimum	5 mA
Maximum inrush current	6 A
Switching capacity min.	60 mW
Output fuse	6 A gL/gG
Response time	max. 50 ms

Alarm outputs

Number of outputs	4
Voltage	24 V DC (A1 / A2)
Limiting continuous current	50 mA
Electrical isolation	yes, against relay outputs
Short-circuit protection	Yes

General

Nominal operating mode	100% operating factor
Net weight	219.1 g
Mounting type	DIN rail mounting
Mounting position	horizontal
Degree of protection	IP54
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Control	one and two channel
Housing material	Polyamide PA non-reinforced
Housing color	yellow
Interfaces	DIN rail TBUS for connection to the master module, supplied as standard

Connection data

Connection method	Screw connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

Safety-related characteristic data

Designation	IEC 61508 - High demand
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Safety-related characteristic data

Safety Integrity Level (SIL)	3
Designation	IEC 61508 - Low demand
Safety Integrity Level (SIL)	3
Designation	EN ISO 13849
Performance level (PL)	e
Category	4
Designation	EN 62061
Safety Integrity Level Claim Limit (SIL CL)	3
Designation	EN 50156
Safety Integrity Level (SIL)	3

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V
Rated surge voltage/insulation	4 kV / basic insulation between output contact current paths (13/14, 23/24, 33/34, 43/44); 6 kV / safe isolation, reinforced insulation between output contact current paths (13/14, 23/24, 33/34, 43/44) and the other circuits
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
China RoHS	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371901
eCl@ss 5.1	27371901
eCl@ss 6.0	27371819
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819
eCl@ss 9.0	27371819

ETIM

ETIM 3.0	EC001449
ETIM 4.0	EC001417
ETIM 5.0	EC001449
ETIM 6.0	EC001417

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Classifications

UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501
UNSPSC 11	39121501
UNSPSC 12.01	39121501
UNSPSC 13.2	39122329

Approvals

UL Listed / cUL Listed / Functional Safety / EAC / cULus Listed /

Approval details

UL Listed

cUL Listed

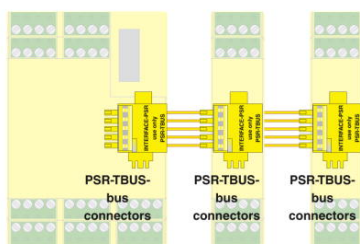
Functional Safety

EAC

cULus Listed

Drawings

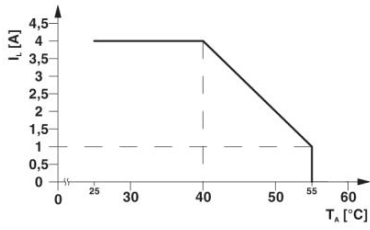
Connection diagram



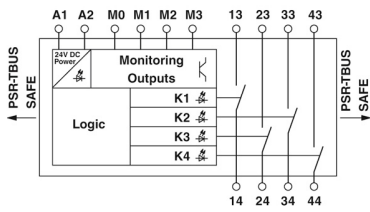
PSR-TBUS DIN rail connectors are used for cross-wiring between the modules.

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Diagram



Circuit diagram



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