

1104974

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Configurable safety module (basic module), 8 safe inputs, 4 safe outputs, 4 reset inputs or 4 signal outputs, 4 clock outputs, can be extended via TBUS, up to SIL 3, Cat. 4/PL e, plug-in screw terminal block, TBUS connector not included

Product description

The configurable and individually scalable PSRmodular safety system is a flexible safety solution for monitoring your machine or system. The freely configurable base module is used to monitor various pieces of safety equipment such as emergency stop, safety doors, and light grids. The base module has safe inputs and outputs, as well as signal outputs and clock outputs.

Your advantages

- · Cost-effective safety solution with a high level of adaptability to individual requirements
- · Fast startup, thanks to easy hardware and software configuration
- · Machine downtimes minimized with comprehensive, easy-to-understand diagnostics
- · Flexible extension with safe inputs and outputs
- Possibility of connecting fieldbus gateways for bidirectional communication between the base module and the higher-level controller
- · Narrow housing width of just 22.6 mm
- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508
- Suitable for elevator applications in accordance with EN 81-20

Commercial data

Item number	1104974
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN02
Product key	DNA361
GTIN	4055626973258
Weight per piece (including packing)	198 g
Weight per piece (excluding packing)	159 g
Customs tariff number	85371098
Country of origin	IT



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Technical data

Notes

Product properties Product type Safety device Emergency stop Light grid Safety door Safe shutdown Data management status Article revision 02 Insulation characteristics Protection class III Times Response time see user manual min. 5 s (Boot time) max. 10 s (Boot time) max. 10 s (Boot time) Electrical properties Maximum power dissipation for nominal condition 7.1 W (with max. permissible load) Nominal operating mode 100% operating factor Interfaces DIN rail TBUS for connection to the master module, not supplied as standard Air clearances and creepage distances between the power circuits Rated insulation voltage 250 V AC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 19.5 Sm A(Outputs active, without load) Power consumption at U _S 19.5 Sm A(Outputs inactive) Filter time 19.5 Sm a(At 1 in the event of voltage dips at U _S) Serial protection against planity reversal	Note on application	
Product type Application Emergency stop Light grid Safety door Safe shutdown Data management status Article revision O2 Insulation characteristics Protection class III Times Response time Restart time see user manual min. 5 s (Boot time) Electrical properties Maximum power dissipation for nominal condition Nominal operating mode Interfaces Interfaces Air clearances and creepage distances between the power circuits Rated insulation voltage Rated surge voltage(insulation Supply Designation Rated control circuit supply voltage U _S Rated control supply current I _S Iyp. 55 mA (Outputs ancieve) Inush current Pitler time Emergency stop Light grid Safety door Safety door Safety door Safety door Safety door Safety door Safety shutdown Date management status III Time Emergency stop Safety door Safety devices Safety door Safety door Safety door Safety door Safety devices III III III III III III III	Note on application	Only for industrial use
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Safety door Safe shutdown	Application	Emergency stop
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Electrical properties Maximum power dissipation for nominal condition Nominal operating mode Interfaces DIN rail TBUS for connection to the master module, not supplied as standard Air clearances and creepage distances between the power circuits Rated insulation voltage Rated surge voltage/insulation Supply Designation A1/A2 Rated control circuit supply voltage U _S Rated control circuit supply voltage U _S Rated control circuit supply voltage U _S Rated control supply current I _S Typ. 55 mA (Outputs inactive) Typ. 1.32 W (Outputs inactive) Power consumption at U _S Inrush current Filter time Typ. 5 ms (at A1 in the event of voltage dips at U _S)	Restart time	min. 5 s (Boot time)
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Air clearances and creepage distances between the power circuits Rated insulation voltage Rated surge voltage/insulation Supply Designation A1/A2 Rated control circuit supply voltage U _S Rated control circuit supply voltage U _S Rated control supply voltage U _S Rated control supply voltage U _S Rated control supply current I _S typ. 55 mA (Outputs inactive) typ. 135 mA (Outputs active, without load) Power consumption at U _S Inrush current < 2.3 A (Δt = 1 ms at U _S) Filter time typ. 5 ms (at A1 in the event of voltage dips at U _S)	Nominal operating mode	100% operating factor
	Interfaces	
	Air clearances and creepage distances between the power circuits	
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	Rated surge voltage/insulation	Basic insulation 4 kV between all current paths and housing
	Supply	
Rated control circuit supply voltage U_S	Designation	A1/A2
	Rated control circuit supply voltage U _S	19.2 V DC 28.8 V DC
$typ. \ 135 \ mA \ (Outputs \ active, \ without \ load)$ $typ. \ 1.32 \ W \ (Outputs \ inactive)$ $Inrush \ current$ $< 2.3 \ A \ (\Delta t = 1 \ ms \ at \ U_s)$ $typ. \ 5 \ ms \ (at \ A1 \ in \ the \ event \ of \ voltage \ dips \ at \ U_s)$	Rated control circuit supply voltage U _S	
Power consumption at U_S typ. 1.32 W (Outputs inactive) Inrush current < 2.3 A ($\Delta t = 1 \text{ ms at } U_s$) Filter time typ. 5 ms (at A1 in the event of voltage dips at U_s)	Rated control supply current I _S	typ. 55 mA (Outputs inactive)
Inrush current $< 2.3 \text{ A } (\Delta t = 1 \text{ ms at } U_s)$ Filter time typ. 5 ms (at A1 in the event of voltage dips at U_s)		typ. 135 mA (Outputs active, without load)
Filter time typ. 5 ms (at A1 in the event of voltage dips at U _s)	Power consumption at U _S	typ. 1.32 W (Outputs inactive)
	Inrush current	< 2.3 A (Δt = 1 ms at U _s)
Protective circuit Serial protection against polarity reversal	Filter time	typ. 5 ms (at A1 in the event of voltage dips at $\mathrm{U_s}$)
	Protective circuit	Serial protection against polarity reversal



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Input data

Digital: IN1, IN2, IN3, IN4, IN5, IN6, IN7, IN8

Description of the input	Safety-related digital inputs
	IEC 61131-2 type 2
Number of inputs	8
Input voltage range "0" signal	0 V DC 5 V DC (for safe Off)
Input voltage range "1" signal	11 V DC 28.8 V DC
Input current range "0" signal	< 1 mA
Filter time	min. 3 ms ±2 ms (adjustable)
	max. 250 ms ±2 ms (adjustable)
	Test pulse rate ≥ 2x set filter time, min. Test pulse rate = 10 ms
Cable length	max. 100 m (per input)
Max. permissible overall conductor resistance	max. 1.2 k Ω (Input and reset circuit at U_S)
Current consumption	typ. 10 mA (typ. with U _S)
	max. 12.1 mA (at a control voltage of 28.8 V DC)

Digital: Reset inputs (FBK)

Description of the input	configurable (as signal output or reset input)
	IEC 61131-2 Type 2
Number of inputs	4
Input voltage range "0" signal	0 V DC 5 V DC
Input voltage range "1" signal	11 V DC 28.8 V DC
Input current range "0" signal	< 1 mA
Filter time	250 ms ±2 ms (Test pulse rate > 500 ms)
Cable length	max. 100 m (per input)
Max. permissible overall conductor resistance	1.2 k Ω (Input and reset circuit at U_S)
Current consumption	typ. 12 mA (typ. with U _S)
	max. 14.7 mA (at a control voltage of 28.8 V DC)

Output data

Digital: O1, O2, O3, O4

Output description	Safety-related digital outputs
	PNP, OSSD
	IEC 61131-2 type 0.5 (observe limiting continuous current)
Number of outputs	4
Short-circuit protection	Yes (max. permissible short-circuit current 12 A)
Leakage current	max. 250 μA
Cable length	max. 100 m (per output)
Ohmic load	min. 50 Ω (Observe limiting continuous current)
Max. capacitive load	max. 820 nF
Max. inductive load	max. 2.4 mH
Limiting continuous current	400 mA (per channel)
	1.6 A (Total current of all safe digital outputs)



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Inrush current	max. 600 mA (Δt < 10 ms)
Nominal output voltage	24 V DC (Supply via A1)
Nominal output voltage range	18.5 V DC 28.1 V DC (U _S - 0,7 V)
Switching frequency	max. 1/4 x t _{Cycle} [Hz]
Output voltage when switched off	< 0.1 V
Test pulses	< 120 µs (Test pulse width of low test pulses)
	≥ 650 ms (Test pulse rate for low test pulse)
	< 150 µs (Test pulse width, high test pulse)
	≥ 1.5 s (Test pulse rate, high test pulse)
Discharging circuit	Yes, internal
gnal: MO1, MO2, MO3, MO4	
Output description	PNP, IEC 61131-2 Typ 0,1
	non-safety-related, configurable (as signal output or reset input)
Number of outputs	4
Output voltage when switched off	max. 0.1 V
Voltage	24 V DC (via A1)
Maximum inrush current	1.1 A ($\Delta t = 3 \text{ s at } U_s$)
Limiting continuous current	100 mA (per channel)
	400 mA (Total current of all digital signal outputs)
Leakage current	max. 100 μA
Switching frequency	max. 1/4 x t _{Cycle} [Hz]
Short-circuit protection	Yes (self-limitation at 1.1 A)
Cable length	max. 100 m (per output)
ock: T1, T2, T3, T4	
Output description	PNP, IEC 61131-2 Typ 0,1
Number of outputs	4
Voltage	24 V DC (via A1)
Output voltage when switched off	max. 0.1 V
Maximum inrush current	1.1 A ($\Delta t = 3 \text{ s at } U_s$)
Limiting continuous current	100 mA (per channel)
	400 mA (Total current of all outputs)
Leakage current	max. 100 μA
Test pulses	≤ 200 μs (Test pulse duration)
. 55. p. 550	Test pulse rate = 8 x t _{Cycle} [ms]
Short-circuit protection	Yes (self-limitation at 1.1 A)
Cable length	max. 100 m (per output)
Max. capacitive load	max. 470 nF
Max. inductive load	max. 2.4 mH

Connection data

Connection technology



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pluggable	yes
nductor connection	
Connection method	Screw connection
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 12
Stripping length	7 mm
Screw thread	M3
Tightening torque	0.5 Nm 0.6 Nm
aling	
Status display	1 x LED (green), 1 x LED (orange), 1 x LED (blue)
	4 x LED (green, yellow, red)
	12 x LED (yellow)
Operating voltage display	1 x green LED
Error indication	2 x LED (red)
ensions	
Width	22.61 mm
Height	112.58 mm
Depth	113.6 mm
rial specifications	
Color (Housing)	yellow (RAL 1018)
Housing material	Polyamide PA non-reinforced
racteristics	
fety data	
Stop category	0
fety data: EN ISO 13849	
Performance level (PL)	e (2-channel wiring)
	d (1-channel wiring)
	**
fety data: IEC 61508 - High-demand for 2-channel wiring	
Safety Integrity Level (SIL)	3
fety data: IEC 61508 - High-demand for 1-channel wiring	
Safety Integrity Level (SIL)	2
fety data: EN IEC 62061	
Safety Integrity Level (SIL)	3 (2-channel wiring)

Environmental and real-life conditions



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Ambient conditions

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-10 °C 55 °C (observe derating)
Ambient temperature (storage/transport)	-20 °C 85 °C
Maximum altitude	≤ 2000 m (Above sea level)
Max. permissible humidity (storage/transport)	95 % (non-condensing)
Max. permissible relative humidity (operation)	95 % (non-condensing)
Shock	10g for Δt = 16 ms (continuous shock, 1000 shocks in each space direction)
Vibration (operation)	10 Hz 150 Hz, 2g

Approvals

CE

Identification	CE-compliant
racritinoation	OE compliant

Mounting

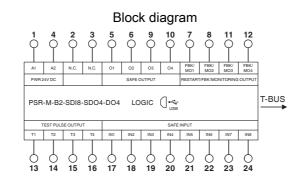
Mounting type	DIN rail mounting
Assembly note	Observe derating
Mounting position	vertical or horizontal



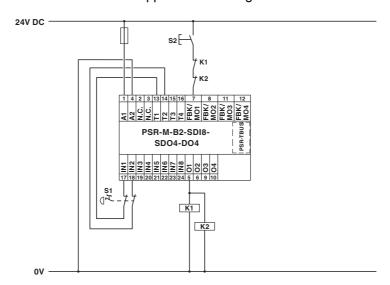
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Drawings



Application drawing





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1104974



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705



EAC

Approval ID: RU*-DE*B.00606/20



Functional Safety

Approval ID: Z10 029429 0013

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

27371819
27371819
27371819
EC001449

39122200



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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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Accessories

CP-MSTB - Coding profile

1734634

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Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



CR-MSTB - Coding section

1734401

https://www.phoenixcontact.com/us/products/1734401

Coding section, inserted into the recess in the header or the inverted plug, red insulating material $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$





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ME 22,5 TBUS 1,5/5-ST-3,81 YE - DIN rail bus connectors

2200244

https://www.phoenixcontact.com/us/products/2200244



DIN rail connector, color: yellow, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-22,5.., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

ME 22,5 TBUS 1,5/5-ST-3,81 YE - 1PCS - DIN rail bus connectors

1225375

https://www.phoenixcontact.com/us/products/1225375



DIN rail connector, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, color: yellow, mounting: DIN rail, item with gold-plated contacts, bus connector for connecting to electronics housings, 5 parallel contacts



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PSR-M-MEMORY - Configuration memory

1105142

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Optional memory block for the PSRmodular system for easy storage and backup of configuration data. When using the PSR-M-B3 base module, use the memory card from item revision 1105142-1.

PSR-FTB/1.5/11.5 - Filter terminal block

2904476

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Terminal block for filtering test pulses from safe semiconductor outputs with adjustable filter values (1.5 μ F/11.5 μ F), as well as for EMC filtering of 24 V signals up to an amperage of 2 A.



1104974

https://www.phoenixcontact.com/us/products/1104974

PSR-FTB/20/86 - Filter terminal block

2904477

https://www.phoenixcontact.com/us/products/2904477



Terminal block for filtering test pulses from safe semiconductor outputs with adjustable filter values (20 $\mu\text{F/86}~\mu\text{F}),$ as well as for EMC filtering of 24 V signals up to an amperage of 2 A.

CABLE-USB/MINI-USB-3,0M - USB cable

2986135

https://www.phoenixcontact.com/us/products/2986135

USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m





1104974

https://www.phoenixcontact.com/us/products/1104974

CRIMPFOX 6 - Crimping pliers

1212034

https://www.phoenixcontact.com/us/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, $0.25~\text{mm}^2$... $6.0~\text{mm}^2$, lateral entry, trapezoidal crimp

EBP 2-5 - Insertion bridge

1733169

https://www.phoenixcontact.com/us/products/1733169

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



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