

1104974

https://www.phoenixcontact.com/us/products/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 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 Power consumption at U _S Inush current Filter time typ. 5ms (at A1 in the event of voltage dips at U _s)	Note on application	Only for industrial use
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 min. 5 s (Boot time) max. 10 s (Boot time) Electrical properties Maximum power dissipation for nominal condition Nominal operating mode Interfaces 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 supplie voltage U _S Rated control supplie voltage U _S Rated control supply current I _S Vyp. 55 mA (Outputs active, without load) Power consumption at U _S Insush current Filter time Vyp. 5 ms (at A1 in the event of voltage dips at U _S)	Product properties	
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Safety door Safe shutdown	Application	Emergency stop
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) 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 surge voltage/insulation Basic insulation 4 kV between all current paths and housing Supply Designation A1/A2 Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 24 V DC -20 % / +20 % (provide external protection, typically 5 A) Rated control supply current I _S typ. 55 mA (Outputs inactive) Inrush current 1.3 Wp. 1.32 W (Outputs inactive) Inrush current 4 c 2.3 A (At = 1 ms at U _s)		Light grid
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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) Inrush current Filter time Typ. 5 ms (at A1 in the event of voltage dips at U _S) Filter time Typ. 5 ms (at A1 in the event of voltage dips at U _S)	Restart time	min. 5 s (Boot time)
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 surge voltage/insulation Basic insulation 4 kV between all current paths and housing Supply A1/A2 Rated control circuit supply voltage U _S 19.2 V DC 28.8 V DC Rated control circuit supply voltage U _S 24 V DC -20 % / +20 % (provide external protection, typically 5 A) Rated control supply current I _S typ. 55 mA (Outputs inactive) typ. 135 mA (Outputs active, without load) Power consumption at U _S typ. 1.32 W (Outputs inactive) 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)		max. 10 s (Boot time)
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 Basic insulation 4 kV between all current paths and housing Supply Designation A1/A2 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. 135 mA (Outputs inactive) typ. 1.32 W (Outputs inactive) Inrush current C 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)	Electrical properties	
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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 Pated control supply current I _S Typ. 55 mA (Outputs inactive) typ. 135 mA (Outputs active, without load) Power consumption at U _S Inrush current C 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	
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 19.2 V DC 28.8 V DC 24 V DC -20 % / +20 % (provide external protection, typically 5 A) Rated control supply current I_S typ. 55 mA (Outputs inactive) typ. 135 mA (Outputs active, without load) 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 insulation voltage	250 V AC
	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	
Output voltage when switched off	max. 1/4 x t _{Cycle} [Hz] < 0.1 V
· · ·	< 120 µs (Test pulse width of low test pulses)
Test pulses	≥ 650 ms (Test pulse width of low test pulses)
	< 150 µs (Test pulse rate for low test pulse)
Discharging sirevit	≥ 1.5 s (Test pulse rate, high test pulse)
Discharging circuit	Yes, internal
ignal: 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)
lock: 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)
	Test pulse rate = 8 x t _{Cycle} [ms]
	Syste

Yes (self-limitation at 1.1 A)

max. 100 m (per output)

max. 470 nF

max. 2.4 mH

Yes, internal

Connection data

Cable length

Connection technology

Short-circuit protection

Max. capacitive load

Max. inductive load

Discharging circuit



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pluggable	yes
Conductor 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
gnaling	
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)
	(/
mensions	
Width	22.61 mm
Height	112.58 mm
Depth	113.6 mm
aterial specifications	
Color (Housing)	yellow (RAL 1018)
Housing material	Polyamide PA non-reinforced
naracteristics	
Safety data	
Stop category	0
Safety data: EN ISO 13849	
Performance level (PL)	e (2-channel wiring)
	d (1-channel wiring)
Cofety data, IEC CAECO . High degrand for 2 should wish	
Safety data: IEC 61508 - High-demand for 2-channel wiring	2
Safety Integrity Level (SIL)	3
Safety data: IEC 61508 - High-demand for 1-channel wiring	
Safety Integrity Level (SIL)	2
Safety 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	CE-compliant CE-compliant
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Mounting

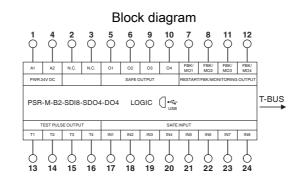
Mounting type	DIN rail mounting
Assembly note	Observe derating
Mounting position	vertical or horizontal



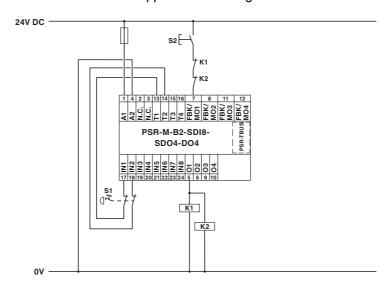
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Drawings



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

ECLASS-11.0	27371819
ECLASS-13.0	27371819
ECLASS-12.0	27371819
ETIM	
ETIM 9.0	EC001449
UNSPSC	

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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