

1337849

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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 Push-in 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
- · Low housing width of just 22.6 mm
- Tool-free and time-saving installation thanks to Push-in technology
- 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
- · Corrosion protection through protective coating on the PCB

Commercial data

Item number	1337849
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	****
Product key	DNA361
GTIN	4063151640835
Weight per piece (including packing)	186.3 g
Weight per piece (excluding packing)	159 g
Customs tariff number	85371098
Country of origin	IT



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Technical data

Notes

lote on application	Only for industrial use
uct properties	
Product type	Safety device
Application	Emergency stop
	Light grid
	Safety door
	Safe shutdown
Control	1 and 2 channel
nes	
Response time	see user manual
Restart time	min. 5 s (Boot time)
	max. 10 s (Boot time)

Electrical properties

Rated surge voltage/insulation

Maximum power dissipation for nominal condition	7.48 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

See section "Insulation coordination"

Air clearances and creepage distances between the power circuits

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 % (external fuse, typically 4 A)
Rated control supply current I _S	typ. 55 mA (Outputs inactive)
Power consumption at U _S	typ. 1.32 W (Outputs inactive)
Inrush current	9.16 A ($\Delta t = 0.5 \text{ ms at U}_s$)
Filter time	typ. 5 ms (in the event of voltage dips at U _s)
Protective circuit	Serial protection against polarity reversal

Input data

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

Description of the input	Safety-related digital inputs
	NPN
Number of inputs	8
Input voltage range "0" signal	0 V DC 5 V DC (for safe Off)



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Input voltage range "1" signal	11 V DC 28.8 V DC
Input current range "0" signal	< 0.2 mA
	V=1
Inrush current	max. 524 mA (Δt = 6 μs at U _s)
Filter time	min. 3 ms (adjustable)
	max. 250 ms (adjustable)
	Test pulse rate ≥ 2x set filter time, min. Test pulse rate = 10 ms
	max. 3 ms (Test pulse rate ≥ 10x configured filter time for low test pulse)
	max. 250 ms (Test pulse rate ≥ 10x configured filter time for high test pulse)
Cable length	max. 100 m
Max. permissible overall conductor resistance	max. 1.2 k Ω (Input and reset circuit at U_S)
Current consumption	typ. 3.7 mA (typ. with $U_{\rm S}$)
	max. 4.6 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)
	NPN, digital
Number of inputs	4
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	< 0.2 mA
Inrush current	max. 906.53 mA (Δt = 10 μ s at U _s)
Filter time	250 ms (constant)
	< 250 ms (Test pulse duration)
	> 1 s (Test pulse rate)
Cable length	max. 100 m
Max. permissible overall conductor resistance	1.2 k Ω (Input and reset circuit at U_S)
Current consumption	typ. 5.7 mA (typ. with $U_{\rm S}$)
	max. 7 mA (at a control voltage of 28.8 V DC)

Output data

Digital: O1, O2, O3, O4

Output description	Safety-related digital outputs
Output description	Salety-related digital outputs
	PNP, OSSD, digital
	IEC 61131-2 type 0.25 (observe limiting continuous current)
Number of outputs	4
Short-circuit protection	no
Output voltage	< 0.3 V (Low state)
Leakage current	< 500 μA (Low state)
Cable length	max. 100 m
Max. capacitive load	max. 820 nF
Max. inductive load	See "Protective circuit"
Limiting continuous current	400 mA (per channel)



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	1.6 A (Total current of all safe digital outputs)
Inrush current	max. 600 mA ($\Delta t = 25$ ms at U _s)
Nominal output voltage	24 V DC (Supply via A1)
Nominal output voltage range	18.6 V DC 28.2 V DC (U _S - 0,7 V)
Switching frequency	max. 1/4 x t _{Cycle} [Hz]
Test pulses	< 235 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
nal: MO1, MO2, MO3, MO4	
Output description	PNP, digital, IEC 61131-2 type 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. 4.5 mA (Low state)
Switching frequency	max. 1/4 x t _{Cycle} [Hz]
Short-circuit protection	Yes (self-limitation at 1.1 A)
Cable length	max. 100 m
.1. 74. 70. 70. 74	
Output description	DND digital IEC 61121 2 type 0.1
Output description	PNP, digital, IEC 61131-2 type 0.1
Number of outputs	
Voltage	24 V DC (via A1)
Maximum inrush current	1.1 A ($\Delta t = 3$ s at U _s) 100 mA (per channel)
Limiting continuous current	" ,
Toet puleos	400 mA (Total current of all outputs)
Test pulses	≤ 200 µs (Test pulse duration)
Short-circuit protection	Test pulse rate = 8 x t _{Cycle} [ms]
Short-circuit protection	Yes (self-limitation at 1.1 A) max. 100 m
Cable length Max. capacitive load	max. 100 m
Max. inductive load	max. 4/0 nF max. 2.4 mH
Discharging circuit	Yes, internal
nection data	



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Connection method	Push-in connection
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross-section AWG	24 14
Stripping length	10 mm
Interfaces	
Data: Service interface	
Connection method	USB 2.0 Hi-Speed
Number of connections	1
Data: Local bus	
Note	via the PSR-TBUS DIN rail connector
Signaling	
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 LED (green)
Error indication	2 x LED (red)
Dimensions	
Width	22.61 mm
Height	107.74 mm
Depth	113.6 mm
Material specifications	
Color (Housing)	yellow (RAL 1018)
Housing material	Polyamide PA non-reinforced
Characteristics	
Safety data: EN ISO 13849	
Performance level (PL)	e (2-channel wiring)
	d (1-channel wiring)
Safety data: IEC 61508 - High-demand for 2-channel wiring	
Safety Integrity Level (SIL)	3
Safety data: IEC 61508 - High-demand for 1-channel wiring	
Safety Integrity Level (SIL)	2
Safety latearity Level (SIL)	2
Safety Integrity Level (SIL)	2
Safety data: EN IEC 62061	
Safety Integrity Level (SIL)	3 (2-channel wiring)



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Mounting position

	2 (1-channel wiring)
nvironmental and real-life conditions	
Who mile that and real life containens	
Ambient conditions	
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-10 °C 70 °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
oprovals CE	
Identification	CE-compliant
Environmental simulation test	
Identification	ISA-S71.04
Note	G3
DNV	
Identification	C, EMC2
Certificate	XXX
ounting	
Mounting type	DIN rail mounting
Assembly note	Observe derating

vertical or horizontal



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Approvals

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DNV

Approval ID: TAA000039N



cULus ListedApproval ID: E238705



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Classifications

ECLASS

ECLASS-11.0	27371819
ECLASS-13.0	27371819
ECLASS-12.0	27371819

ETIM

ETIM 9.0	EC001449



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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

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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

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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 method: 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/in/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.



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PSR-FTB/20/86 - Filter terminal block

2904477

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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.

CRIMPFOX 6 - Crimping pliers

1212034

https://www.phoenixcontact.com/in/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 mm² ... 6.0 mm², lateral entry, trapezoidal crimp



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EBP 2-5 - Insertion bridge

1733169

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Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



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