

1337851

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Safe extension module with 4 safe analog inputs, 0 V ... 10 V; 0 mA or 4 mA ... 20 mA; TBUS interface, up to Cat. 4/PL e, SIL 3, plug-in Push-in terminal block, TBUS connector included

Product description

The configurable and individually scalable PSRmodular safety system is a flexible safety solution for monitoring your machine or system. The safe extension module provides the system with additional safe analog inputs.

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
- · Tool-free and time-saving installation thanks to Push-in technology
- · Low housing width of just 22.6 mm
- Up to Cat. 4/PL e in accordance with 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	1337851
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNA362
GTIN	4063151639730
Weight per piece (including packing)	198 g
Weight per piece (excluding packing)	159 g
Country of origin	IT



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Technical data

Notes

lote on application	
Note on application	Only for industrial use
duct properties	
Product type	Safety device
Application	Analog IN
Control	1 and 2 channel
nsulation characteristics	
Protection class	III
ïmes	
Response time	see user manual
Restart time	min. 5 s (Boot time)
	max. 10 s (Boot time)
ctrical properties	O 70 M/ (with many marries this lead)
Maximum power dissipation for nominal condition	2.76 W (with max. permissible load)
Nominal operating mode	100% operating factor
Interfaces	DIN rail TBUS for connection to the master module, supplied as standard
ir clearances and creepage distances	
Rated surge voltage/insulation	Basic insulation 4 kV between all current paths and housing
	Electrical isolation, 0.5 kV functional insulation between logic at analog inputs and between the analog inputs
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 6 A)
. Lates control of our capping voltage og	2 1 1 2 2 2 70 7 20 70 (external race, typically 0 7 ty
Rated control supply current I _S	typ. 82 mA (without sensor supply)
	typ. 82 mA (without sensor supply)
Rated control supply current I _S	typ. 82 mA (without sensor supply) typ. 212 mA (with sensor supply)
Rated control supply current I _S	typ. 82 mA (without sensor supply) typ. 212 mA (with sensor supply) typ. 1.96 W (without sensor supply)
Rated control supply current I_S Power consumption at U_S	typ. 82 mA (without sensor supply) typ. 212 mA (with sensor supply) typ. 1.96 W (without sensor supply) typ. 5.08 W (with sensor supply)

Input data

General

Protective circuit	Overload protection of the current inputs; Suppressor diode



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Analog

alog	
Input name	IN S1, IN S2, IN S3, IN S4
Description of the input	Safety-oriented analog inputs, configurable as current or voltage inputs, galvanically isolated
Number of inputs	4
Connection technology	2-conductor, 3-conductor or 4-conductor (2-conductor sensor signal + 2-conductor sensor supply)
Note regarding the connection technology	shielded
Scanning rate	2.5/5/10/16.6/20/50/60/100/200/400/800/1000/2000/4000 Hz
Current input signal	0 mA 25 mA (Measuring range)
	0 mA 20 mA (Configurable measuring range with diagnostics range 20.1 mA 23 mA)
	4 mA 20 mA (Configurable measuring range with diagnostics range 20.1 mA 23 mA (upper limit), 2.5 mA 3.8 mA (lower limit))
Voltage input signal	0 V 12 V (Measuring range)
	0 V 10 V (Configurable measuring range with diagnostics range 10.05 V 11.5 V (upper limit), 0.1 V (lower limit))
Max. permissible current	max. 35 mA (as current input)
Permissible voltage	max. 24 V (as current input)
	max. 14 V (as voltage input)
Input resistance current input	290 Ω ±25 % (incl. internal protective circuit)
Input resistance of voltage input	185 kΩ ±25 %
A/D converter resolution	16 bit
Resolution (current)	381 nA
Resolution (voltage)	152 μV
Precision	typ. \pm 2 % (as current input, relative to the measuring range fina value)
	max. ± 2.5 % (as current input)
	typ. \pm 1 % (as voltage input, relative to the measuring range final value)
	max. ± 1.5 % (as voltage input)
Temperature coefficients	typ. ± 0.07 %/K
	max. ± 0.07 %/K
Limit frequency (3 dB)	160 Hz (RC low pass, 1st order, as current input)
	4 Hz (RC low pass, as voltage input)
Frequency	20 Hz (max. recommended sensor signal frequency, as current input)
	2 Hz (max. recommended sensor signal frequency, as voltage input)
	mpat)
Permissible cable length	max. 100 m (per input)
Permissible cable length Protective circuit	

Output data

Sensor supply: OUT S1/0V ...OUT S4/0V



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Description	Sensor supply voltage per analog input
Supply voltage	24 V DC ±3 %
Current	max. 30 mA (Sensor current recording per channel)
Short-circuit-proof	yes
Protective circuit	Overload protection Overload detection at ≥ —— f mA
nnection data	
Connection technology	
pluggable	yes
Conductor connection	
Connection method	Push-in 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 14
Stripping length	10 mm
gnaling	
Status display	4 x LED (yellow, red)
Operating voltage display	1 x LED (green)
nensions	
Width	22.61 mm
Height	107.74 mm
Depth	113.6 mm
terial specifications	
Color (Housing)	yellow (RAL 1018)
Housing material	Polyamide PA non-reinforced
aracteristics	
Safety data	
Stop category	0
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
Caroty integrity Level (CIL)	4
Safety data	
Safety Integrity Level (SIL)	2



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Safety data: EN IEC 62061

Safety Integrity Level (SIL)	3 (2-channel wiring)
	2 (1-channel wiring)

Environmental and real-life conditions

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

Approvals

CE

Identification	CE-compliant
Environmental simulation test	
Identification	ISA-S71.04
Note	G3

Mounting

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



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Approvals

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cULus Listed
Approval ID: E238705



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Classifications

ECLASS

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

ETIM

ETI	M 9.0	EC001449



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Environmental product compliance

REACH candidate substance (CAS No.)

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	

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/in/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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CRIMPFOX 6 - Crimping pliers

1212034

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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

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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