

Data sheet

Commercial Art.No.: R1.188.1810.0

Device for monitoring of safety-related circuits SNA4043K-A AC/DC 24V (A)

Base unit also for elevators EN 81-20/50 and heaters EN50156-1 single- channel or two-channel control, automatic reset without reset switch monitoring, cross circuit monitoring, 3 enabling current paths, 1 signalling output, AC/DC 24 V 50-60Hz, screw-terminals plug gable

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DIGITALIZATION IN PROGRESS

Commercial Art.No.	R1.188.1810.0
EAN	4046521293855
Order Unit	1

Certificates / Approvals



Technical data

General

Function display	3 LED, green
Creepage distances and clearances between the circuits	EN 60664-1
Protection degree according to DIN EN 60529 (housing)	IP40
Protection degree according to DIN EN 60529 (terminals)	IP20
Ambient temperature min.	-25 °C
Ambient temperature max.	65 °C
Wire ranges screw terminals, fine-stranded / solid	1 x 0,2 mm ² - 2,5 mm ² / 2 x 0,2 mm ² - 1,0 mm ²
Wire ranges screw terminals, fine-stranded with ferrules	1 x 0,25 mm ² - 2,5 mm ² / 2 x 0,25 mm ² - 1,0 mm ²
Permissible torque min.	0.5 Nm
Permissible torque max.	0.6 Nm
Tightening moment	0.6 Nm
Weight	0.21 kg
Standards	EN ISO 13849-1EN 62061, EN 81-1EN 50156-1; EN 62061; EN 81-1; EN 50156-1
Suited for safety functions	Yes
With muting function	No
Feedback circuit	Yes
Start contact	Yes
Stop category acc. to IEC 60204	0
Rail mounting possible	Yes

Connection Data

Detachable clamps	Yes
Type of electric connection	Screw connection

Application

Model	Basic device
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Suitable for monitoring of magnetic switches	Yes
Suitable for monitoring of proximity switches	Yes
Suitable for monitoring of emergency-stop circuits	Yes
Suitable for monitoring of optoelectronic protection equipment	Yes
Suitable for monitoring of position switches	Yes

Output circuit

Enabling paths	Normally open contact
Signaling paths	Opener
Contact material	Ag-alloy, gold-plated
Rated switching voltage, enabling paths AC	230 V
Rated switching voltage, enabling paths DC	24 V
Rated switching voltage, signaling paths AC	230 V
Max. thermal current I_{th} , enabling paths	8 A
Max. thermal current I_{th} , signaling paths	5 A
Max. total current I^2 of all current path	25 A ²
Application category AC-15 (NO)	Ue 230V, Ie 5A
Application category DC-13 (NO)	Ue 24V, Ie 5A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral
Mechanical life	10 ⁷ switching cycles
Outputs, signalling function, undelayed, with contact	1
Outputs, signalling function, delayed, with contact	0
Outputs, safe, undelayed, with contact	3
Outputs, safe, delayed, with contact	0

Control circuit

Nominal output voltage DC	24 V
Input current (safety circuit / reset circuit)	25 mA
max. peak current (safety circuit / reset circuit)	100 mA
Response time tA1	350 ms
Response time tA2	350 ms
Min. switch-on time	100 ms
Recovery time tW	750 ms
Release time tR	10 ms
Permissible test pulse time tTP	1 ms
max. resistivity, per channel	$\leq (5 + (1,176 \times U_B / U_N - 1) \times 100) \Omega$
Type of switch function of the inputs	Normally open contact
Evaluation inputs	2-channel

Supply circuit

Nominal voltage U_N	AC/DC 24 V
Rated consumption AC	2.9 VA
Rated consumption DC	1.6 W
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Electrical isolation supply circuit - control circuit	No
Min. rated control supply voltage at AC 50 Hz	20.4 V
Max. rated AC voltage for controls, 50 Hz	26.4 V
Min. rated DC voltage for controls	20.4 V
Max. rated DC voltage for controls	26.4 V

Min. rated control supply voltage at DC	20.4 V
Rated control supply voltage at AC 60HZ	20.4 V
Rated control supply voltage at AC 50HZ	26.4 V

Dimensions

Depth	114 mm
Width	22.5 mm
Height	96.5 mm

Classification

ECLASS 8.1	27371819
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449
ETIM 4.0	EC001449
ETIM 3.0	EC001449

Safety parameters

Category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL _{CL} (IEC 62061)	3
PFD _d (Low demand mode)	6.7 E-6
PFH _d (High demand mode)	8.5 E-9 1/h
HFT	1
SSF	99.5 %
DC	99 %
MTTF _d	132 a
T _M	20 a
Proof test intervall (High demand mode)	20 a

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R1.188.0460.0
R1.188.0470.0
R1.188.0480.0
R1.188.0490.0
R1.188.0500.1
R1.188.0530.1
R1.188.0590.0
R1.188.0620.0
R1.188.0640.0
R1.188.0660.0
R1.188.0680.0
R1.188.0700.2
R1.188.0720.2
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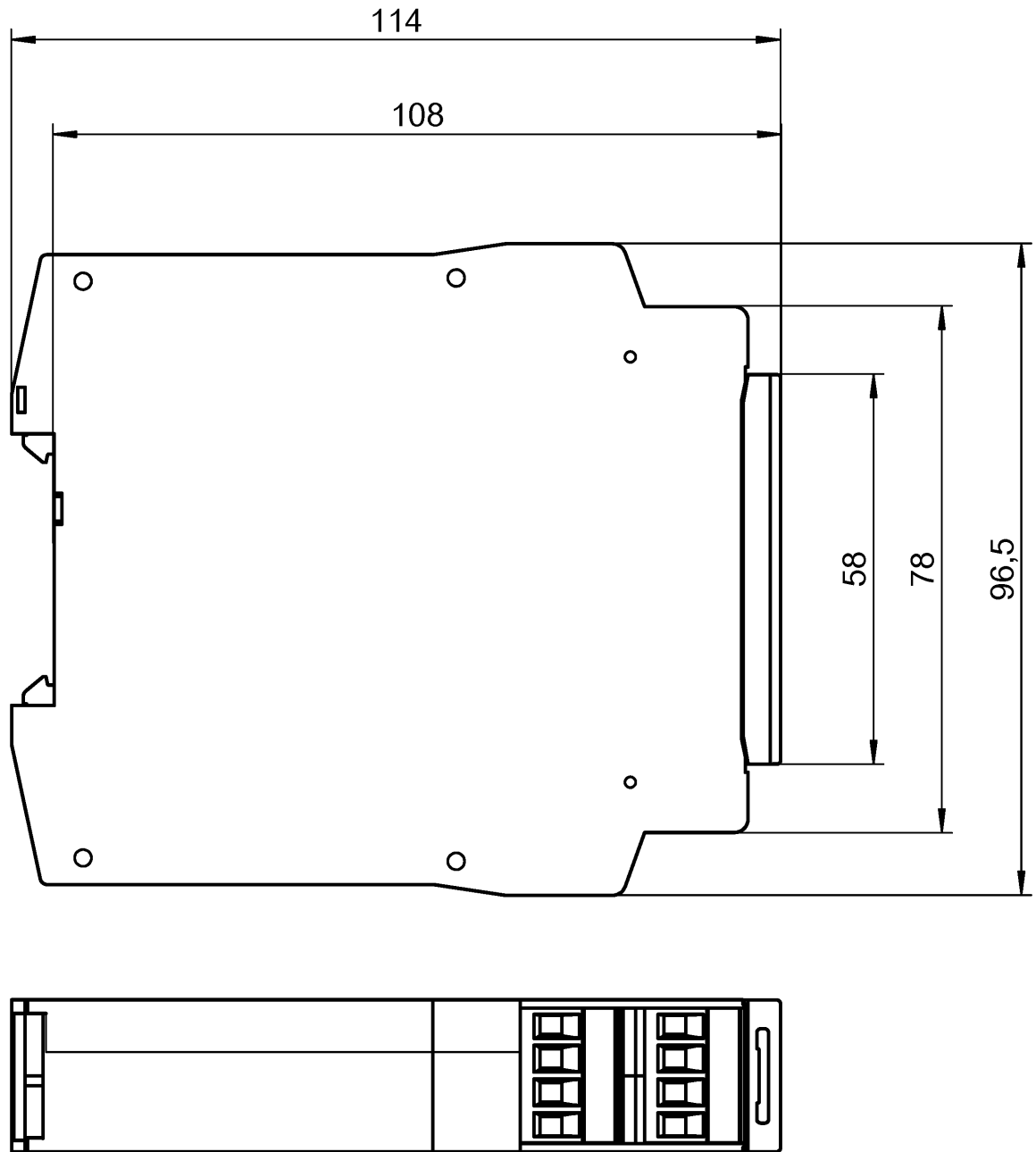
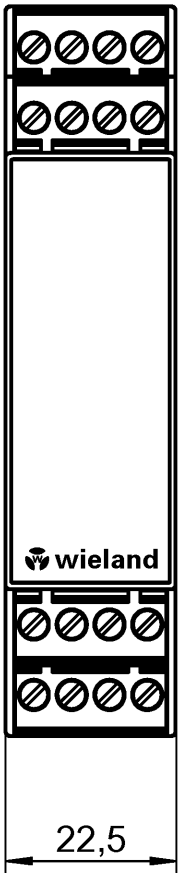
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Weitere Angaben siehe KATALOG oder eKatalog.
Additional data see CATALOG or eCatalog.

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eshop.wieland-electric.com

ja/yes ☐ Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten.
Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared!

Freitoleranz nach General tolerance		CAD-Zeichnung, keine manuellen Änderungen CAD-Drawing, no manual modifications allowed		1. Verwendung: First Use:		Blatt: Sheet:	
			Werkstoff/ Material	2014	Tag/ Date	Name	Zeichnung Nr./ Drawing No. T R1.188.0460.0 01K
				gezeichnet drawn	06.06.	Kötzner	
Ⓔ	22.04.16	Maßstab/Scale		geprüft checked			Maße in mm/Dimensions are in mm
Ⓓ	17.03.15		Normgepr. Stand. check				
Ⓒ	03.02.15	Datei/ File: 030181_E01K.DCD		Ersatz für/ Replacement for:			
Ⓑ	04.07.14	 wieland www.wieland-electric.com		Type	Benennung/ Title	Maßbildzeichnung/dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Schraubenklemmen steckbar standard housing and cover, overall with 22,5mm plug-in pcb terminal	
Ⓐ	25.06.14						
Index	Datum/ Blatt Date/ Sheet						
Änderung/ Revision							

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