

## Data sheet

Commercial Art.No.: R1.188.1860.0

device for monitoring of safety-related circuits SNA4044K-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, 4 enabling current paths, AC/DC 24 V 50-60Hz, screw-terminals pluggable



Commercial Art.No.	R1.188.1860.0
EAN	4046521294029
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 <sup>2</sup> - 2.5 mm <sup>2</sup> / 2 x 0.2 mm <sup>2</sup> - 1.0 mm <sup>2</sup>
wire ranges screw terminals, fine-stranded with ferrules	1 x 0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / 2 x 0.25 mm <sup>2</sup> - 1.0 mm <sup>2</sup>
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
suitable 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
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type of electric connection	screw connection
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**safety parameters**

category (ISO 13849-1)	4
PL (ISO 13849-1)	level e
SIL <sub>Cl</sub> (IEC 62061)	3
PFD <sub>d</sub> (Low demand mode)	6.7 E-6
PFH <sub>d</sub> (High demand mode)	8.5 E-9 1/h
HFT	1
SSF	99.5 %
DC	99 %
MTTF <sub>d</sub>	132 a
T <sub>M</sub>	20 a
proof test intervall (High demand mode)	20 a

**application**

model	basic device
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 <sub>th</sub> , enabling paths	8 A
max. total current I <sup>2</sup> of all current path	25 A <sup>2</sup>
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 < 100 A <sup>2</sup> s
mechanical life	10 <sup>7</sup> switching cycles
outputs, signalling function, undelayed, with contact	0
outputs, signalling function, delayed, with contact	0
outputs, safe, undelayed, with contact	4
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	$\leq (5 + (1.176 \times UB / UN - 1) \times 100) \Omega$
type of switch function of the inputs	normally open contact
evaluation inputs	2-channel

#### supply circuit

nominal voltage UN	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 11	
ECLASS 8.1	27371819
ETIM 9.0	EC001449
ETIM 8.0	EC001449
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449
ETIM 4.0	EC001449
ETIM 3.0	EC001449

#### product compliance

ROHS conformity status	compliant/exempted
ROHS exceptions	III-6(c)
REACH-SVHC conformity status	Duty-To-Declare
REACH-SVHC substances	Lead
REACH-SVHC CAS numbers	7439-92-1

Teile Nr. / Part No.
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
R1.188.0900.1
R1.188.0910.1
R1.188.0940.1
R1.188.0950.1
R1.188.0990.0
R1.188.1000.0
R1.188.1010.0
R1.188.1050.0
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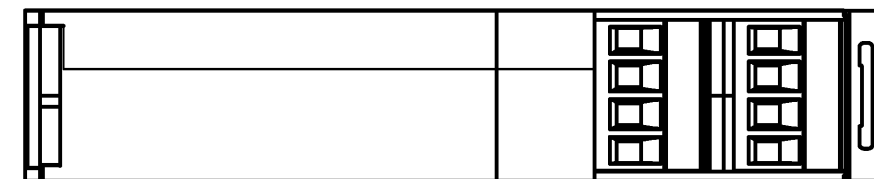
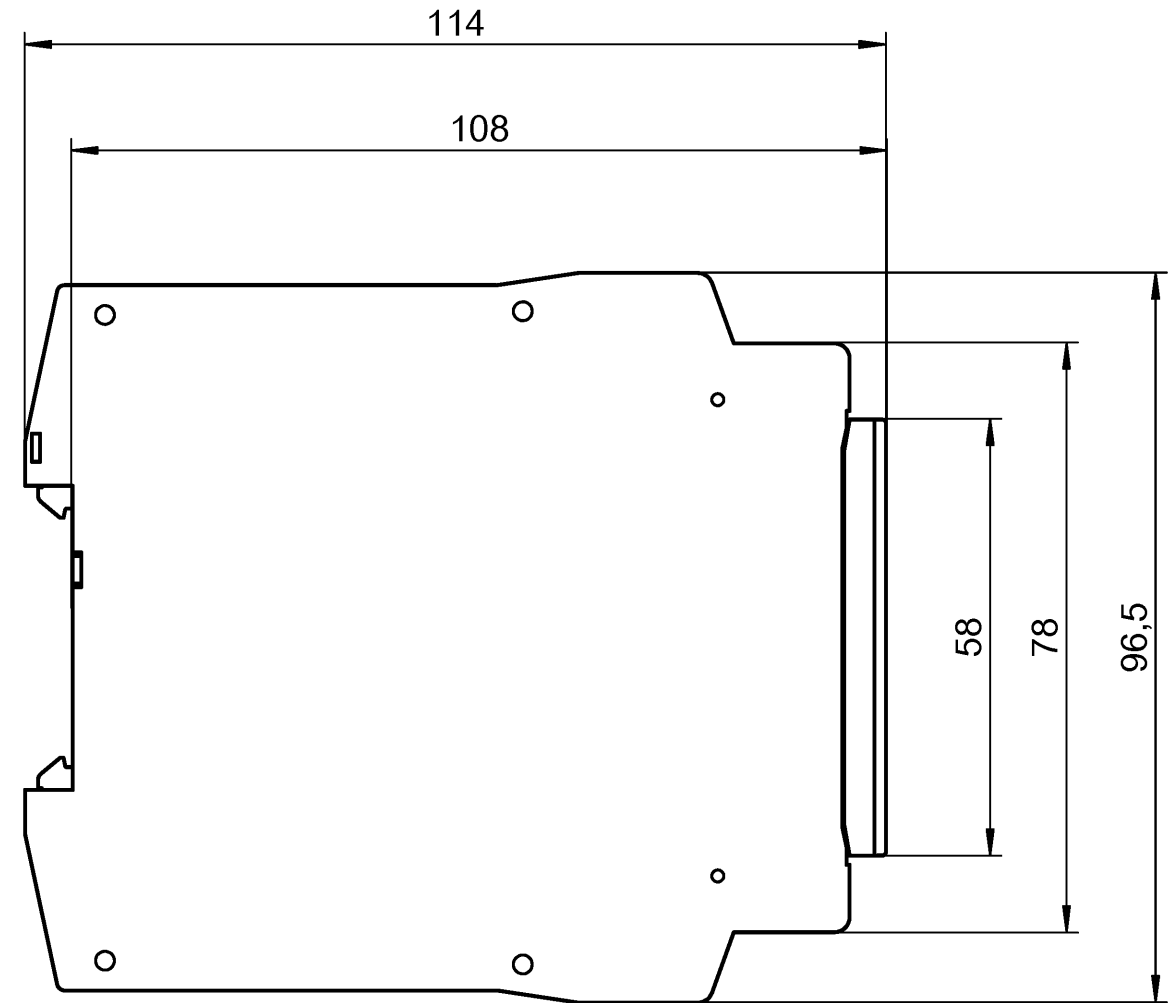
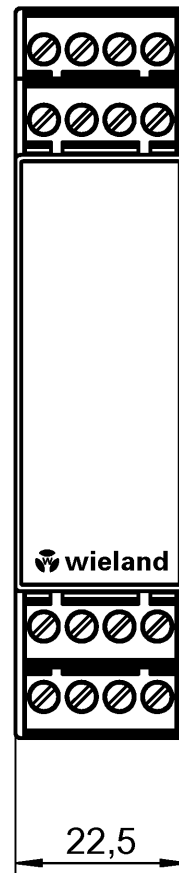
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ja/yes <input type="checkbox"/> Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten. Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared!		1. Verwendung: First Use:		Blatt: Sheet:	
Freitoleranz nach General tolerance		CAD-Zeichnung, keine manuellen Änderungen CAD-Drawing, no manual modifications allowed		Zeichnung Nr./ Drawing No. <b>T R1.188.0460.0 01K</b>	
Werkstoff/ Material		2014 gezeichnet drawn	Tag/ Date 06.06.	Name Kötzner	
ⓔ	22.04.16	Maßstab/Scale	Maße in mm/Dimensions are in mm		
ⓓ	17.03.15	Datei/ File: 030181_E01K.DCD			
ⓐ	03.02.15	Ersatz für/ Replacement for:			
ⓑ	04.07.14	Type		Benennung/ Title	
ⓓ	25.06.14	www.wieland-electric.com		Maßbildzeichnung/dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Schraubenklemmen steckbar standard housing and cover, overall with 22,5mm plug-in pcb terminal	
Index	Datum/ Blatt Date/ Sheet				
Änderung/ Revision					

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