

## Data sheet

Art.No.: R1.188.0700.2

Device for monitoring of safety-related circuits SNO4062K-A AC/DC 24V (C)

Base unit, single-channel or dual-channel control, automatic-/manual reset with reset switch monitoring, 2 enabling current paths, 1 signalling out put, AC/DC 24 V 50-60Hz, screw-terminals pluggable



Art.No.	R1.188.0700.2
EAN	4015573809024
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.	55 °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 13849-1; EN 62061; EN 62061
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
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
Max. thermal current $I_{th}$ , enabling paths	6 A
Max. thermal current $I_{th}$ , signaling paths	3 A
Max. total current $I^2$ of all current path	9 A <sup>2</sup>
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 2,5A
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	1
Outputs, safe, undelayed, with contact	2

### Control circuit

Input current (safety circuit / reset circuit)	40 mA
max. peak current (safety circuit / reset circuit)	100 mA
Response time tA1	40 ms
Response time tA2	500 ms
Min. switch-on time	50 ms
Recovery time tW	> 40 ms
Release time tR	< 25 ms
Synchronous time tS	200 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	4.4 VA
Rated consumption DC	2 W
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Operating voltage min.	20.4 V
Operating voltage max.	26.4 V
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 <sub>Cl</sub> (IEC 62061)	3
PF <sub>d</sub> (Low demand mode)	7.3 E-6
PFH <sub>d</sub> (High demand mode)	1.7 E-9 1/h
HFT	1
SSF	99.5 %
DC	99 %
MTTF <sub>d</sub>	78 a
λS	1458 FIT
λD	1458 FIT
λDU	1443 FIT
λDD	15 FIT
T <sub>M</sub>	20 a
Proof test intervall (High demand mode)	20 a
Proof test intervall (Low demand mode)	1 a

#### 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
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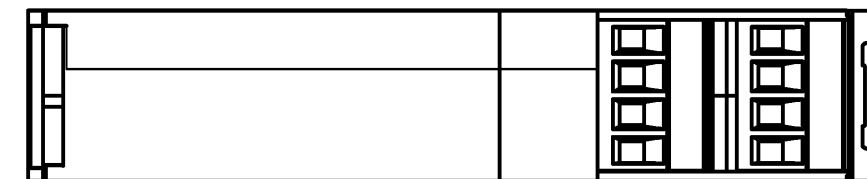
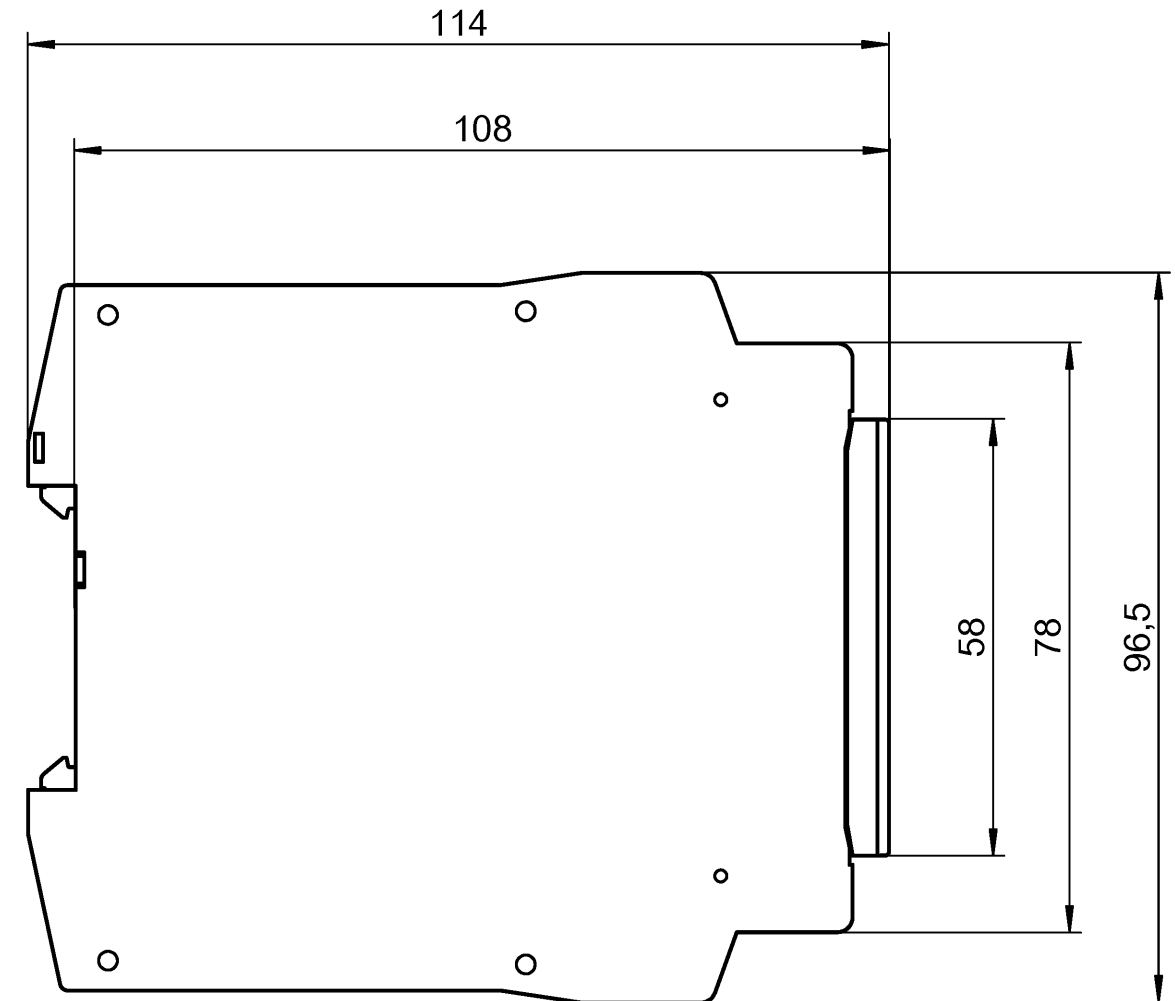
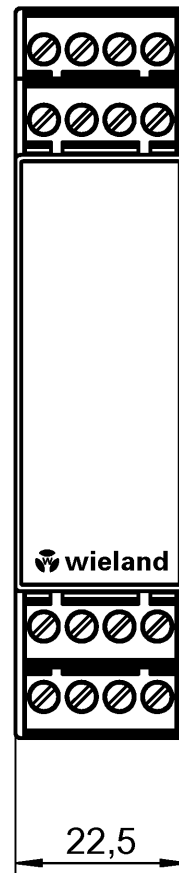
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ja/yes <input type="checkbox"/> Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten. Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared!		1. Verwendung: First Use:		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		
d	17.03.15	Datei/ File: 030181_E01K.DCD			
©	03.02.15	Ersatz für/ Replacement for:			
b	04.07.14	Type		Benennung/ Title	
a	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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