

## Data sheet

Art.No.: R1.188.0530.1

Two-hand control relay SNZ4052K-A AC/DC 24V (B)

Base unit EN 574 type IIIC, two-channel control, 2x N.C./N.O. startup inhibit circuit, synchronous time monitoring, 2 enabling current path, 1 signaling output, AC/DC 24 V 50-60Hz, screw-terminals pluggable



Art.No.	R1.188.0530.1
EAN	4015573808515
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	0.2 kg
Standards	EN ISO 13849-1 EN 62061 EN 574; EN 62061; EN 574
Suited for safety functions	Yes
With muting function	No
Feedback circuit	Yes
Start contact	No
Stop category acc. to IEC 60204	0
Rail mounting possible	Yes
Applicable in accordance with EN 574	Type III C

### Connection Data

Detachable clamps	Yes
Type of electric connection	Screw connection

#### 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
Rated switching voltage, signaling paths DC	24 V
Max. thermal current $I_{th}$ , enabling paths	6 A
Max. thermal current $I_{th}$ , signaling paths	2 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, signalling function, delayed, with contact	0
Outputs, safe, undelayed, with contact	2
Outputs, safe, delayed, with contact	0

#### Control circuit

Nominal output voltage DC	24 V
Input current (safety circuit / reset circuit)	60 mA
max. peak current (safety circuit / reset circuit)	1000 mA
Response time tA1	40 ms
Response time tA2	40 ms
Min. switch-on time	40 ms
Recovery time tW	> 250 ms
Release time tR	< 50 ms
Synchronous time tS	≤ 500 ms
max. resistivity, per channel	≤ (5 + (1,333 × U <sub>R</sub> / U <sub>N</sub> - 1) × 200) Ω
Type of switch function of the inputs	NC/NO
Evaluation inputs	2-channel

#### Supply circuit

Nominal voltage U <sub>N</sub>	AC/DC 24 V
Rated consumption DC	2.4 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
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**Dimensions**

Depth	114 mm
Width	22.5 mm
Height	96.5 mm

**Classification**

ECLASS 8.1	27371821
ETIM 7.0	EC001452
ETIM 6.0	EC001452
ETIM 5.0	EC001452
ETIM 4.0	EC001452
ETIM 3.0	EC001452

**Application**

Model	Basic device
Suitable for monitoring of magnetic switches	No

**Safety parameters**

Category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL <sub>Cl</sub> (IEC 62061)	3
PFH <sub>d</sub> (High demand mode)	3 E-8 1/h
HFT	1
MTTF <sub>d</sub>	37 a
T <sub>M</sub>	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
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R1.188.0660.0
R1.188.0680.0
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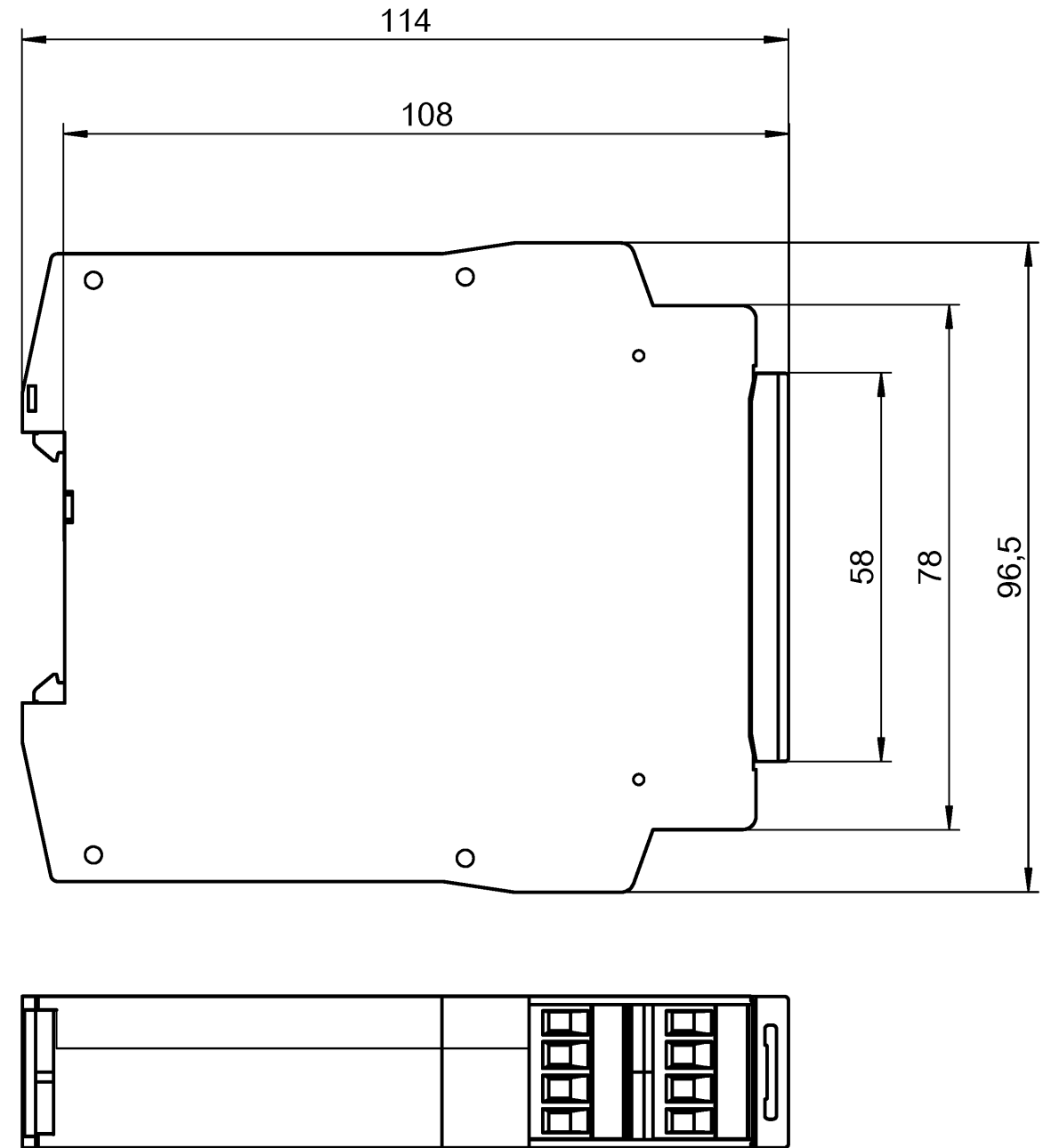
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Freitoleranz nach General tolerance		CAD-Zeichnung, keine manuellen Änderungen CAD-Drawing, no manual modifications allowed		Zeichnung Nr./ Drawing No. <b>T R1.188.0460.0 01K</b>	
Werkstoff/ Material		2014 gezeichnet drawn	Tag/ Date 06.06.	Name Kötzner	
Ⓔ	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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