

## Data sheet

Commercial Art.No.: R1.188.2020.0

two-hand control relay SNZ4052K-C AC/DC 24V (B)

Base unit EN 13851 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, push-in-terminals pluggable



Commercial Art.No.	R1.188.2020.0
EAN	4046521297457
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
permissible torque min.	0.5 Nm
permissible torque max.	0.6 Nm
tightening moment	0.6 Nm
wire range cage clamp terminals	2 x 0.25mm <sup>2</sup> - 1.5mm <sup>2</sup>
weight	0.2 kg
standards	EN ISO 13849-1; EN 62061; EN 13851
suitable 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	spring clamp connection

**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

**application**

model	basic device
suitable for monitoring of magnetic switches	no

**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 <sub>th</sub> , enabling paths	6 A
max. thermal current I <sub>th</sub> , signaling paths	2 A
max. total current I <sup>2</sup> 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 x UB / UN - 1) x 200) Ω
type of switch function of the inputs	NC/NO
evaluation inputs	2-channel

**supply circuit**

nominal voltage UN	AC/DC 24 V
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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

**dimensions**

depth	114 mm
width	22.5 mm
height	106.5 mm

**classification**

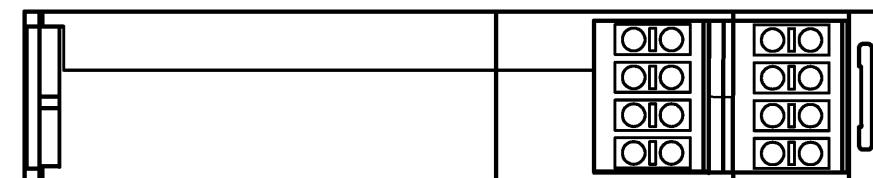
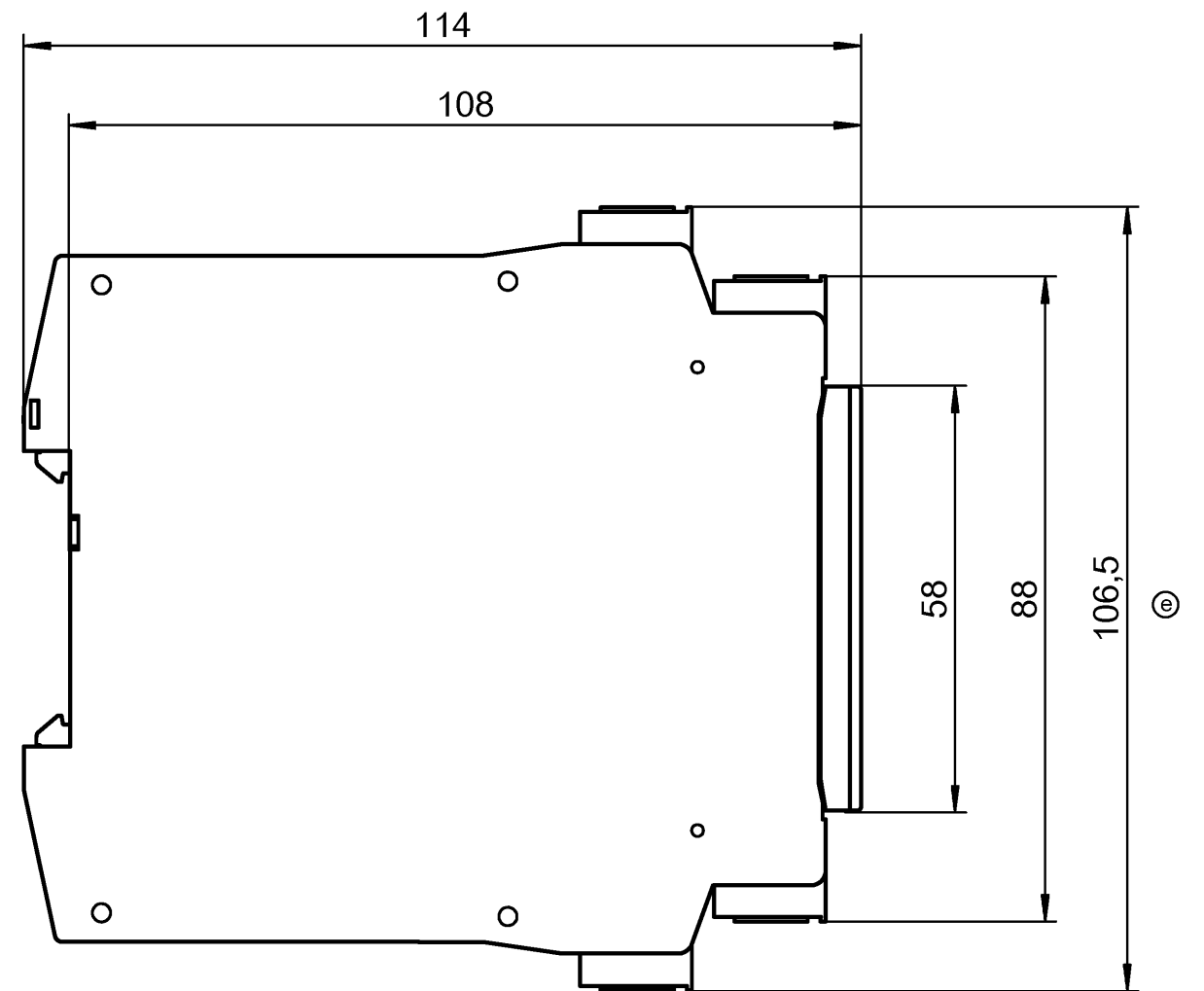
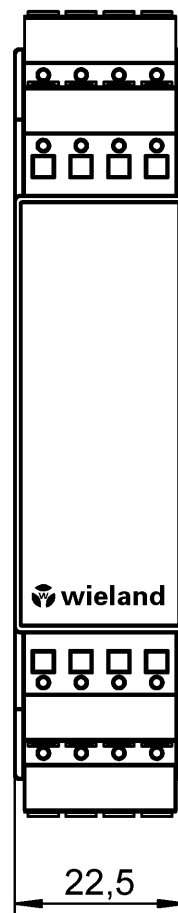
ECLASS 11	
ECLASS 8.1	27371821
ETIM 9.0	EC001452
ETIM 8.0	EC001452
ETIM 7.0	EC001452
ETIM 6.0	EC001452
ETIM 5.0	EC001452
ETIM 4.0	EC001452
ETIM 3.0	EC001452

**product compliance**

REACH-SVHC conformity status	compliant
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Teile Nr. / Part No.
R1.188.1940.0
R1.188.1950.0
R1.188.1960.0
R1.188.1970.0
R1.188.1980.0
R1.188.1990.0
R1.188.2000.0
R1.188.2010.0
R1.188.2020.0
R1.188.2390.0
R1.188.2410.0
R1.188.2420.0
R1.188.2430.0
R1.188.2440.0
R1.188.2450.0
R1.188.3400.0
R1.188.3410.0
R1.188.3420.0
R1.188.3430.0
R1.188.3490.0
R1.188.3600.0

Teile Nr. / Part No.
R1.188.3610.0
R1.188.3630.0
R1.188.3650.0
R1.188.3670.0
R1.188.3730.0
R1.188.3820.0
R1.188.3850.0
R1.188.3860.0
R1.188.3900.0
R1.188.3920.0
R1.188.3940.0
R1.188.4000.0
R1.188.4010.0
R1.188.4030.0
R1.188.4130.0
R1.188.4140.0
R1.188.4150.0
R1.188.4160.0
R1.188.4210.0
R1.188.5000.0



Weitere Angaben siehe KATALOG oder eKatalog.  
Additional data see CATALOG or eCatalog.

[www.wieland-electric.com](http://www.wieland-electric.com)  
[eshop.wieland-electric.com](http://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	
(f)	09.08.19	Maßstab/Scale		gezeichnet drawn	06.06.	Koetzner	
(e)	26.08.16			geprüft checked			
(d)	22.04.16			Normgepr. Stand. check			
(c)	03.07.15	Datei/File: 036141_F01K.DCD		Ersatz für/Replacement for:			
(b)	30.06.15	 www.wieland-electric.com		Type	Benennung/Title		
(a)	03.02.15			Maßbildzeichnung/Dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Federkraftklemme steckbar Standard housing and cover, overall width 22,5mm plug-in spring-clamp terminal			
Index	Datum/Blatt Date/Sheet			Zeichnung Nr./Drawing No. <b>T R1.188.1940.0 01K</b>			
Änderung/Revision				Maße in mm/Dimensions are in mm			

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