

## Data sheet

Commercial Art.No.: R1.188.1980.0

device for monitoring of safety-related circuits SNE4004K-C AC/DC 24V (A)

output expansion unit, 4 enabling current paths, 3 signalling outputs, AC/DC 24 V 50-60Hz, push-in-terminals pluggable



Commercial Art.No.	R1.188.1980.0
EAN	4046521297419
Order Unit	1

certificates / approvals



## Technical data

### general

function display	2 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
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 13849-1EN 62061
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

### connection data

detachable clamps	yes
type of electric connection	spring clamp connection

### safety parameters

category (ISO 13849-1)	3
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PL (ISO 13849-1)	level d
SIL <sub>CL</sub> (IEC 62061)	2
PFD <sub>d</sub> (Low demand mode)	3.2 E-6
PFH <sub>d</sub> (High demand mode)	8.1 E-10 1/h
HFT	1
SSF	99.5 %
DC	99 %
MTTF <sub>d</sub>	55 a
λS	2075 FIT
λD	2075 FIT
λDU	21 FIT
λDD	2054 FIT
T <sub>M</sub>	20 a
proof test intervall (High demand mode)	20 a
proof test intervall (Low demand mode)	1 a

#### application

model	expansion device
suitable for monitoring of magnetic switches	no
suitable for monitoring of emergency-stop circuits	no
suitable for monitoring of optoelectronic protection equipment	no
suitable for monitoring of position switches	no
suitable for monitoring of tactile sensors	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	40 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	3
outputs, signalling function, delayed, with contact	0
outputs, safe, undelayed, with contact	4
outputs, safe, delayed, with contact	0

#### control circuit

response time tA1	25 ms
response time tA2	25 ms
recovery time tW	> 40 ms
release time tR	< 20 ms

max. resistivity, per channel	$\leq (5 + (1.176 \times UB / UN - 1) \times 100) \Omega$
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**supply circuit**

nominal voltage UN	AC/DC 24 V
rated consumption AC	3.3 VA
rated consumption DC	1.6 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	106.5 mm

**classification**

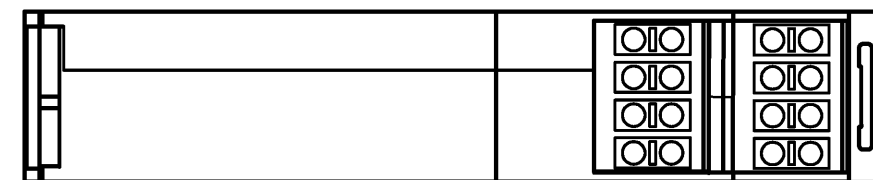
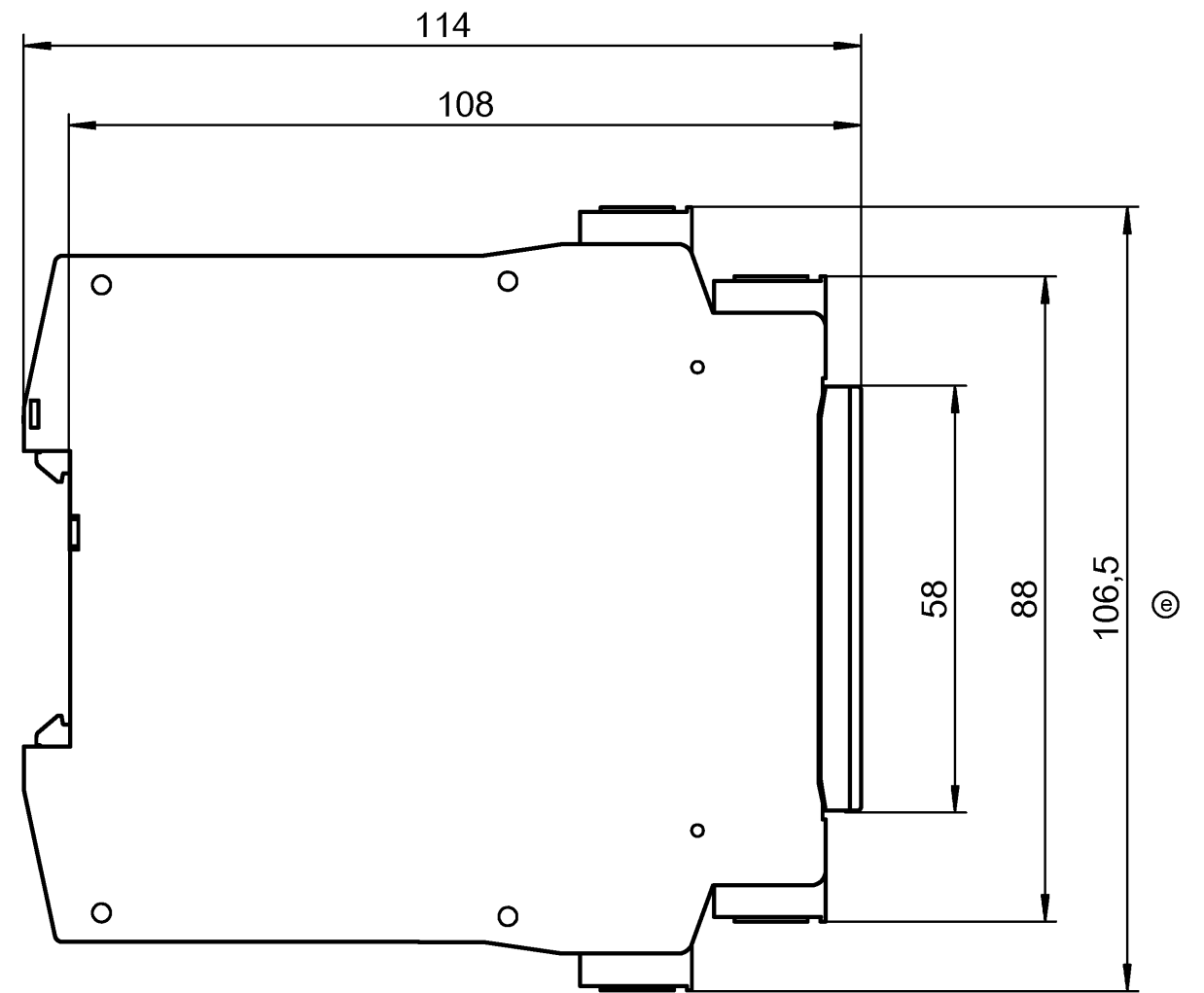
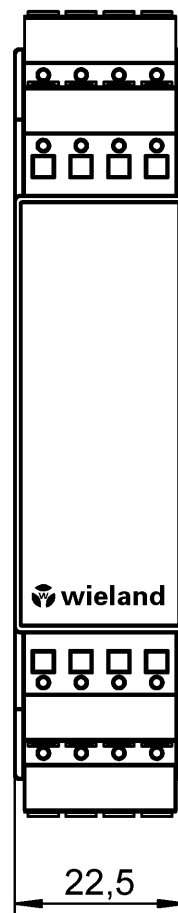
ECLASS 11	
ECLASS 8.1	27371819
ETIM 9.0	EC001449
ETIM 8.0	EC001449
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449
ETIM 4.0	EC001449
ETIM 3.0	EC001449

**product compliance**

ROHS conformity status	compliant/exempted
ROHS exceptions	III-7(c)I
REACH-SVHC conformity status	compliant

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			gezeichnet drawn	06.06.	Koetzner	
(e)	26.08.16	Maßstab/Scale		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			Type	Benennung/Title		
(a)	03.02.15			Maßbildzeichnung/Dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Federkraftklemme steckbar			
Index	Datum/Blatt Date/Sheet	www.wieland www.wieland-electric.com		Standard housing and cover, overall width 22,5mm plug-in spring-clamp terminal			
Änderung/Revision							

Zeichnung Nr./Drawing No.  
**T R1.188.1940.0 01K**

Maße in mm/Dimensions are in mm

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1.1