

## Data sheet

Commercial Art.No.: R1.188.0590.0

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

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



Commercial Art.No.	R1.188.0590.0
EAN	4015573808645
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
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 13849-1EN 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	screw connection

**safety parameters**

category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL <sub>CL</sub> (IEC 62061)	3
HFT	1
MTTF <sub>d</sub>	55 a
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	≤ (5 + (1.176 × UB / UN - 1) × 100) Ω

**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	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	compliant

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
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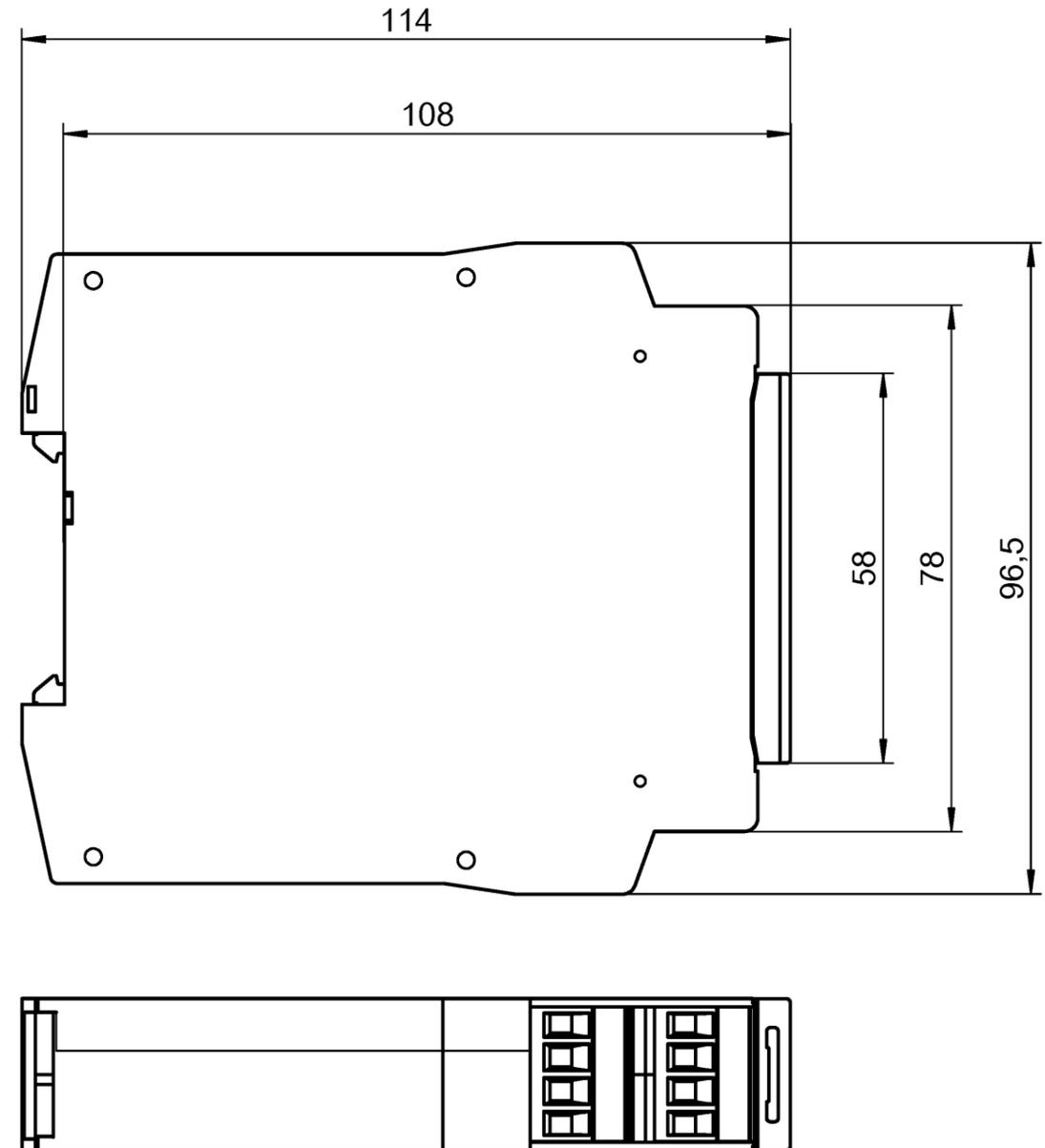
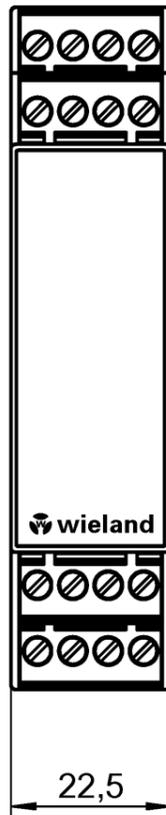
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 Additional data see CATALOG or eCatalog. [eshop.wieland-electric.com](http://eshop.wieland-electric.com)

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Werkstoff/ Material		2014 gezeichnet drawn	Tag/ Date 06.06.	Name Kötzner	
Maßstab/Scale		geprüft checked		Maße in mm/Dimensions are in mm	
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Datum/ Blatt Date/ Sheet		Type		Benennung/ Title Maßbildzeichnung/dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Schraubenklemmen steckbar standard housing and cover, overall with 22,5mm plug-in pcb terminal	
Änderung/ Revision		www.wieland-electric.com			

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