

## Data sheet

Commercial Art.No.: R1.188.3750.0

device for monitoring of safety-related circuits SNO 1012K-C AC/DC 24V

Base unit, single channel control, 2 enabling current paths, AC/DC 24 V 50-60Hz, push-in terminals pluggable



Commercial Art.No.	R1.188.3750.0
EAN	4049088129520
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
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	0.12 kg
standards	EN ISO 13849-1EN 62061; EN 62061
suitable 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	spring clamp connection

### safety parameters

category (ISO 13849-1)	3
PL (ISO 13849-1)	level d
SIL <sub>Cl</sub> (IEC 62061)	2
PFH <sub>d</sub> (High demand mode)	2 E-7 1/h
HFT	1
MTTF <sub>d</sub>	58 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
suitable for monitoring of proximity switches	yes
suitable for monitoring of emergency-stop circuits	yes
suitable for monitoring of optoelectronic protection equipment	no
suitable for monitoring of position switches	yes

#### output circuit

enabling paths	normally open contact
contact material	Ag alloy
rated switching voltage, enabling paths AC	240 V
rated switching voltage, enabling paths DC	50 V
max. thermal current I <sub>th</sub> , enabling paths	6 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 3A
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, 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)	50 mA
max. peak current (safety circuit / reset circuit)	70 mA
response time tA1	20 ms
response time tA2	70 ms
min. switch-on time	30 ms
recovery time tW	> 200 ms
release time tR	< 70 ms
max. resistivity, per channel	≤ (5 + (1.333 x UB / UN - 1) x 200) Ω
type of switch function of the inputs	normally open contact
evaluation inputs	1-channel

#### supply circuit

nominal voltage UN	AC/DC 24 V
rated consumption AC	2 VA
rated consumption DC	1 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**

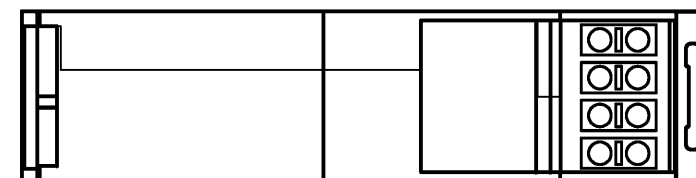
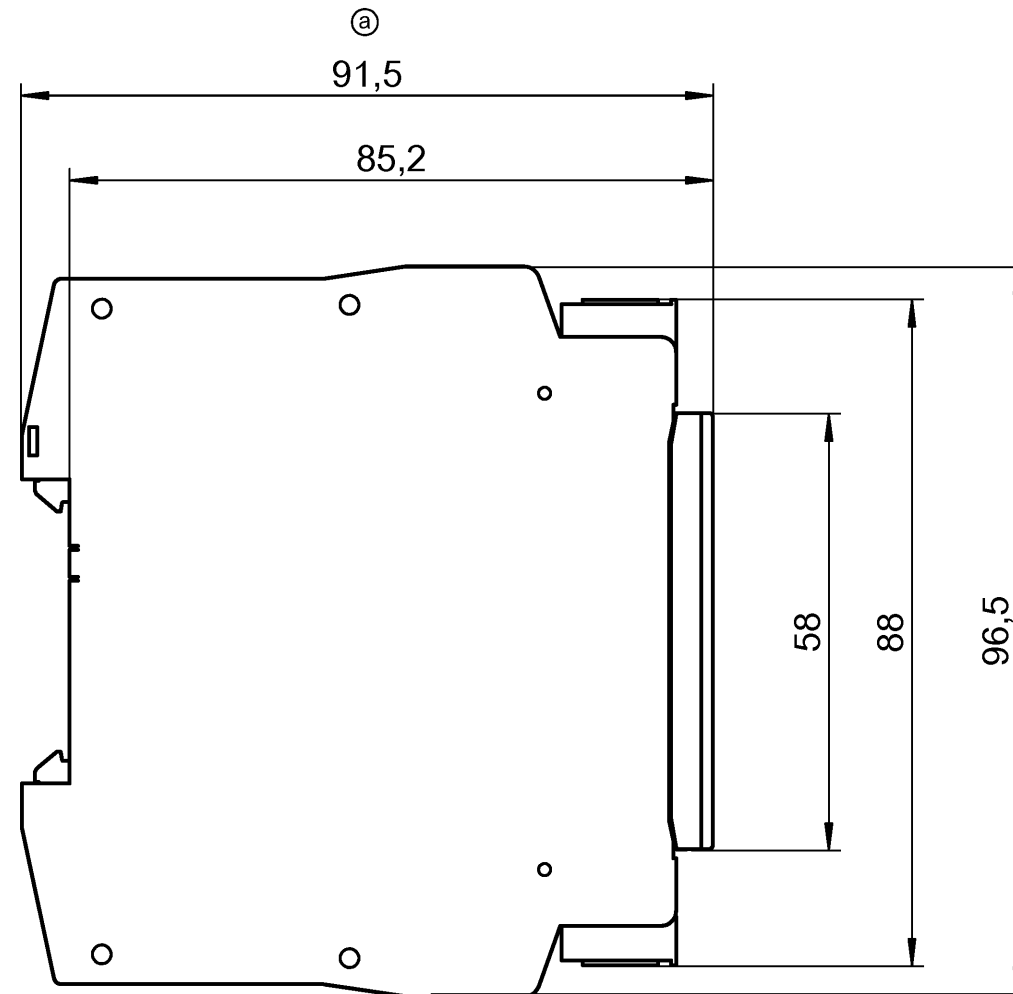
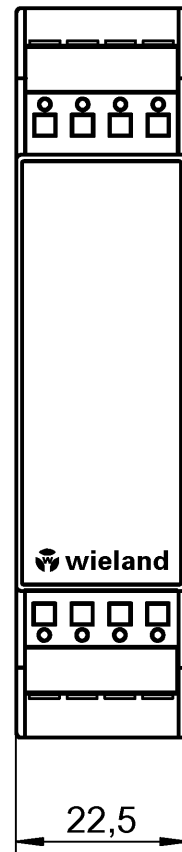
depth	91.5 mm
width	22.5 mm
height	106.5 mm

**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



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[eshop.wieland-electric.com](http://eshop.wieland-electric.com)

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!		CAD-Zeichnung, keine manuellen Änderungen CAD drawing, no manual modifications allowed		1. Verwendung: First Use:		Blatt: Sheet:	
Freitoleranz nach General tolerance		Werkstoff / Material		2014 gezeichnet drawn	Tag/Date 06.06.	Name Koetzner	
Maßstab/Scale		Datei / File: 036351_A01K_R1.188.3750.0.DCD		geprüft checked	Zeichnung Nr. / Drawing No. <b>R1.188.3750.0 01K</b>		
Änderung / Revision		Ersatz für / Replacement for:		Normgepr. Stand. check	Maße in mm / Dimensions are in mm		
@ 02.09.16 Datum / Blatt Date / Sheet		<b>wieland</b> <a href="http://www.wieland-electric.com">www.wieland-electric.com</a>		Type		Benennung / Title Maßbildzeichnung/dimension drawing Kurzes Gehäuse, Baubreite 22,5mm, Standarddeckel Federkraftklemme steckbar short housing, overall 22,5mm, standard cover plug-in spring-clamp terminal	

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