

Data sheet

Commercial Art.No.: R1.188.2450.0

Device for monitoring of safety-related circuits SNO4063K-C AC/DC 24V

Base unit, single-channel or dual-channel control, automatic-/manual reset with reset switch monitoring, 3 enabling current paths, AC/DC 24 V 50-60Hz, push-in terminals pluggable

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DIGITALIZATION IN PROGRESS

Commercial Art.No.	R1.188.2450.0
EAN	4046521301260
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 ² - 1,5mm ²
Weight	0.21 kg
Standards	EN ISO 13849-1EN 62061; EN 62061
Suited 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

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	Yes
Suitable for monitoring of position switches	Yes

Output circuit

Enabling paths	Normally open contact
Contact material	Ag-alloy, gold-plated
Rated switching voltage, enabling paths AC	230 V
Rated switching voltage, enabling paths DC	24 V
Max. thermal current I_{th} , enabling paths	6 A
Max. total current I^2 of all current path	9 A ²
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
Mechanical life	10 ⁷ switching cycles
Outputs, safe, undelayed, with contact	3
Outputs, safe, delayed, with contact	0

Control circuit

Nominal output voltage DC	22 V
Input current (safety circuit / reset circuit)	40 mA
max. peak current (safety circuit / reset circuit)	100 mA
Response time tA1	40 ms
Response time tA2	600 ms
Min. switch-on time	80 ms
Recovery time tW	> 100 ms
Release time tR	25 ms
Synchronous time tS	200 ms
Permissible test pulse time tTP	1 ms
max. resistivity, per channel	$\leq (5 + (1,176 \times U_B / U_N - 1) \times 100) \Omega$
Type of switch function of the inputs	Normally open contact
Evaluation inputs	2-channel

Supply circuit

Nominal voltage U_N	AC/DC 24 V
Rated consumption AC	4.4 VA
Rated consumption DC	2 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

Dimensions

Depth	114 mm
Width	22.5 mm
Height	106.5 mm

Classification

ECLASS 8.1	27371819
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449
ETIM 4.0	EC001449
ETIM 3.0	EC001449

Safety parameters

Category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL _{CL} (IEC 62061)	3
PFD _d (Low demand mode)	6.9 E-6
PFH _d (High demand mode)	1.6 E-9 1/h
HFT	1
SSF	99.5 %
DC	99 %
MTTF _d	60 a
λS	1915 FIT
λD	1915 FIT
λDU	1896 FIT
λDD	19 FIT
T _M	20 a
Proof test intervall (High demand mode)	20 a

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

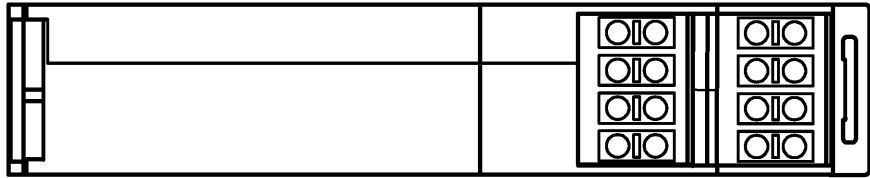
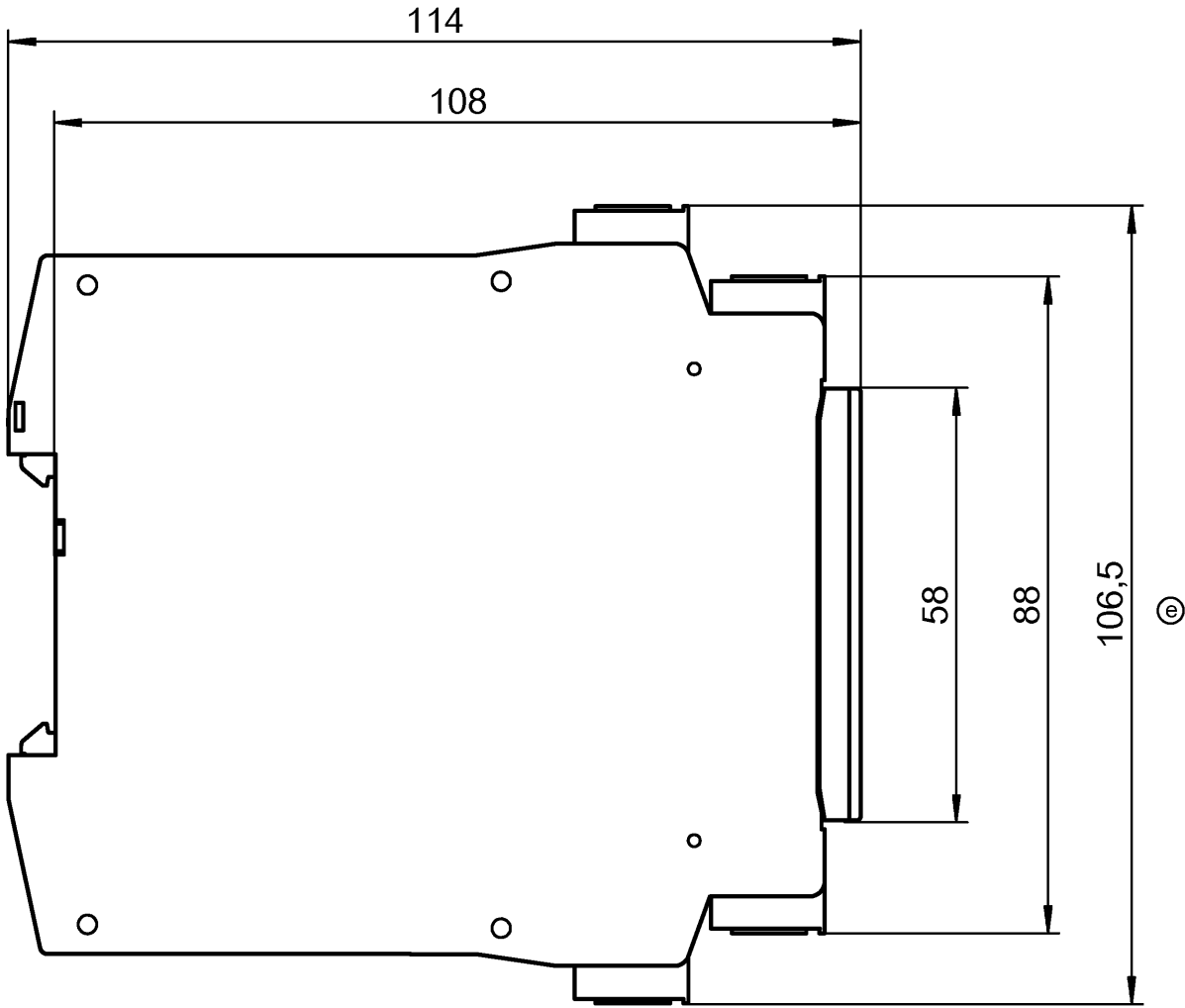
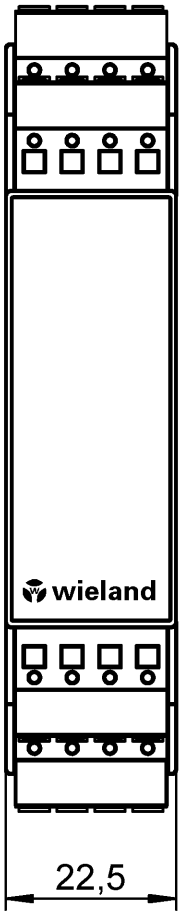
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Weitere Angaben siehe KATALOG oder eKatalog.
Additional data see CATALOG or eCatalog.

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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:						
Ⓕ		09.08.19				Werkstoff/Material		2014		Tag/Date		Name		Zeichnung Nr./Drawing No. T R1.188.1940.0 01K	
Ⓔ		26.08.16						gezeichnet drawn		06.06.		Koetzner			
Ⓓ		22.04.16						geprüft checked							
Ⓒ		03.07.15		Datei/File:		036141_F01K.DCD		Normgepr. Stand. check						Maße in mm/Dimensions are in mm	
Ⓑ		30.06.15				www.wieland-electric.com		Type		Benennung/Title		Maßbildzeichnung/Dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Federkraftklemme steckbar Standard housing and cover, overall width 22,5mm plug-in spring-clamp terminal			
Ⓒ		03.02.15													
Index		Datum/Blatt Date/Sheet													
Änderung/Revision															