

Data sheet

Commercial Art.No.: R1.188.3830.0

Device for monitoring of safety-related circuits SNO 4083KM-A 0,5s_ DC 24V

Base unit also for elevators EN 81-20/50 and heaters EN50156-1 single- channel or two-channel control, manual reset with reset switch monitoring, cross circuit monitoring, synchronous time 0.5s, 3 enabling current paths, 1 signalling output, DC 24 V, screw-terminals pluggable

1011011010001010010101101
0100110110010110100101010
101001101100111001010010
10101001101100111001010010
1101010011011001011010010
10101010010101101010010
10101010010101101010011

DIGITALIZATION IN PROGRESS

Commercial Art.No.	R1.188.3830.0
EAN	4049088143601
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.	65 °C
Wire ranges screw terminals, fine-stranded / solid	1 x 0,2 mm ² - 2,5 mm ² / 2 x 0,2 mm ² - 1,0 mm ²
Wire ranges screw terminals, fine-stranded with ferrules	1 x 0,25 mm ² - 2,5 mm ² / 2 x 0,25 mm ² - 1,0 mm ²
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, EN 81-1EN 50156-1; EN 62061; EN 81-1; EN 50156-1
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	Screw connection

Application

Model	Basic device
Suitable for monitoring of magnetic switches	Yes

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
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_{th} , enabling paths	6 A
Max. thermal current I_{th} , signaling paths	2 A
Max. total current I^2 of all current path	25 A ²
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
Mechanical life	10 ⁷ switching cycles
Outputs, signalling function, undelayed, with contact	1
Outputs, safe, undelayed, with contact	3

Control circuit

Nominal output voltage DC	22.5 V
Input current (safety circuit / reset circuit)	25 mA
max. peak current (safety circuit / reset circuit)	100 mA
Response time tA1	250 ms
Response time tA2	250 ms
Min. switch-on time	60 ms
Recovery time tW	120 ms
Release time tR	20 ms
Synchronous time tS	0.5 s
Permissible test pulse time tTP	0.8 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	DC 24 V
Rated consumption DC	1.6 W
Operating voltage min.	20.4 V
Operating voltage max.	28.8 V
Electrical isolation supply circuit - control circuit	No

Dimensions

Depth	114 mm
Width	22.5 mm
Height	96.5 mm

Classification

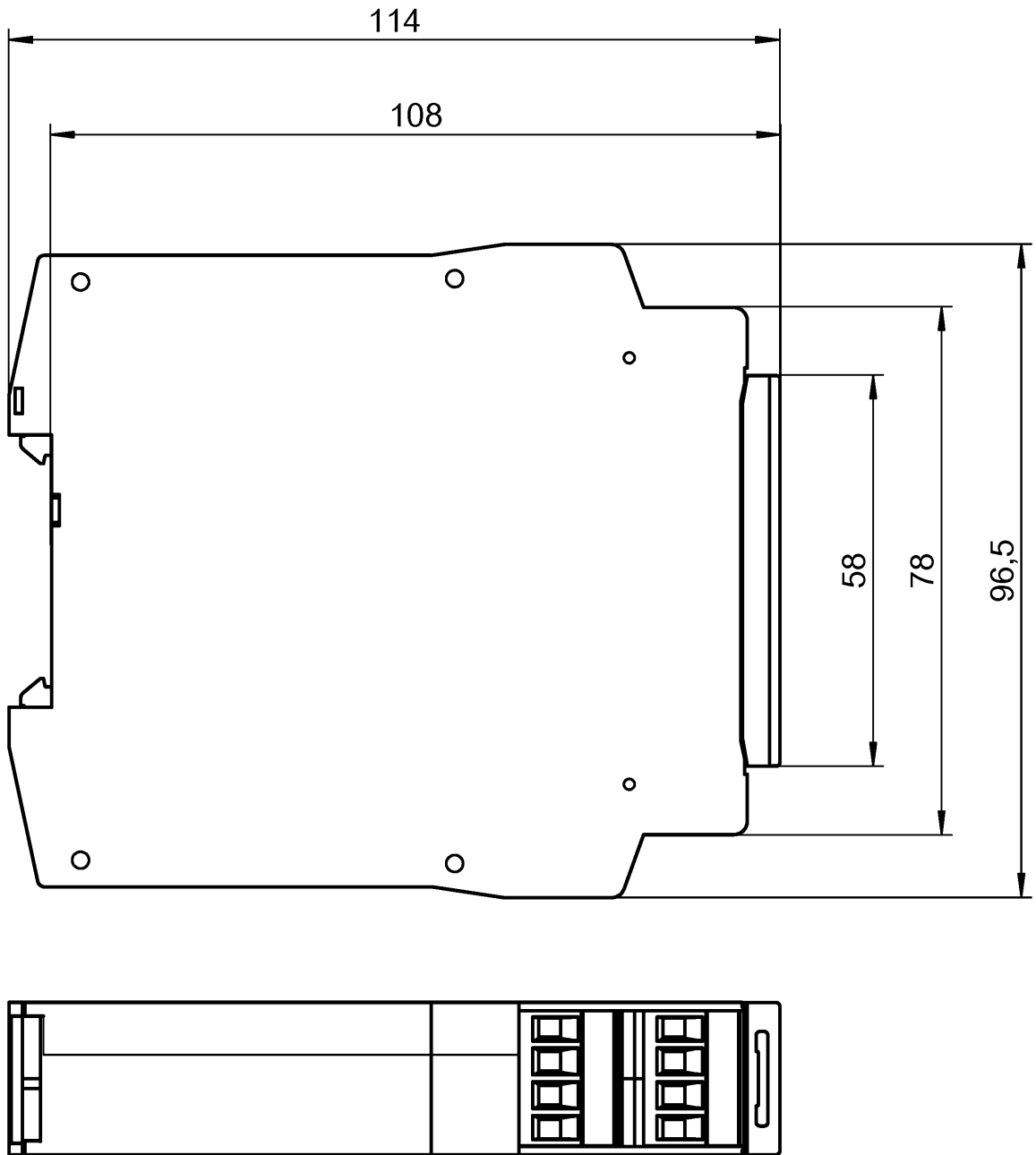
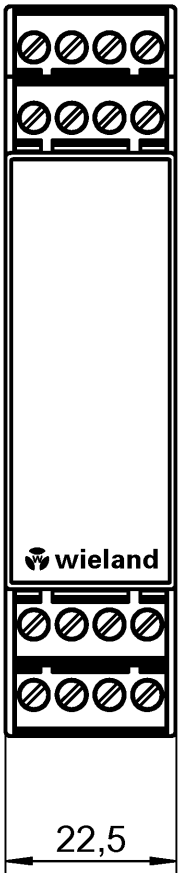
ECLASS 8.1	27371819
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449

Safety parameters

Category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL _{Cl} (IEC 62061)	3
PFD _d (Low demand mode)	5 E-6
PFH _d (High demand mode)	2 E-9 1/h
HFT	1
DC	97 %
MTTF _d	130 a
λS	1085.6 FIT
λD	677.4 FIT
λDU	19.1 FIT
λDD	658.3 FIT
T _M	20 a
Proof test intervall (High demand mode)	20 a

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
R1.188.0720.2
R1.188.0900.1
R1.188.0910.1
R1.188.0940.1
R1.188.0950.1
R1.188.0990.0
R1.188.1000.0
R1.188.1010.0
R1.188.1050.0
R1.188.1060.0
R1.188.1070.0
R1.188.1120.0
R1.188.1280.0
R1.188.1340.0
R1.188.1440.0
R1.188.1450.0
R1.188.1460.0
R1.188.1480.0
R1.188.1810.0
R1.188.1820.0
R1.188.1830.0

Teile Nr. / Part No.
R1.188.1840.0
R1.188.1850.0
R1.188.1860.0
R1.188.1870.0
R1.188.1880.0
R1.188.1890.0
R1.188.1900.0
R1.188.1910.0
R1.188.1920.0
R1.188.1930.0
R1.188.3250.0
R1.188.3290.0
R1.188.3360.0
R1.188.3480.0
R1.188.3580.0
R1.188.3590.0
R1.188.3620.0
R1.188.3640.0
R1.188.3660.0
R1.188.3710.0
R1.188.3810.0
R1.188.3830.0
R1.188.3840.0
R1.188.3910.0
R1.188.3930.0
R1.188.4020.0
R1.188.4100.0
R1.188.4110.0
R1.188.4120.0
81.030.0100.0
81.030.0101.0
81.030.0110.0
81.030.0111.0



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

www.wieland-electric.com
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	
						gezeichnet drawn		06.06.		Kötzner	
						geprüft checked					
③		22.04.16		Maßstab/Scale		Normgepr. Stand. check					
④		17.03.15									
⑤		03.02.15		Datei/ File: 030181_E01K.DCD				Ersatz für/ Replacement for:			
⑥		04.07.14									
⑦		25.06.14									
Index		Datum/ Blatt Date/ Sheet									
Änderung/ Revision											

		Type		Benennung/ Title	
www.wieland-electric.com				Maßbildzeichnung/dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Schraubenklemmen steckbar standard housing and cover, overall with 22,5mm plug-in pcb terminal	

Zeichnung Nr./ Drawing No.	
T R1.188.0460.0 01K	
Maße in mm/Dimensions are in mm	

Weitergabe sowie Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet.
The reproduction, distribution and utilization of this document as well as the communication of its contents to others without express authorization is prohibited.