Data sheet

Commercial Art.No.: R1.188.3600.0

device for monitoring of safety-related circuits SNO 4083KM-C 1,5s_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 1.5s, 3 enabling current paths, 1 signalling output, DC 24 V, push-interminals pluggable

Commercial Art.No.	R1.188.3600.0
EAN	4049088074806
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
permissible torque min.	0.5 Nm
permissible torque max.	0.6 Nm
tightening moment	0.6 Nm
wire range cage clamp terminals	2 x 0.25mm² - 1.5mm²
weight	0.2 kg
standards	EN ISO 13849-1EN 62061, EN 81-1EN 50156-1; EN 62061; EN 81-1; EN 50156-1
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)	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

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
max. thermal current Ith, enabling paths	6 A
max. thermal current Ith, 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 < 100 A^2s
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	1.5 s
permissable test pulse time tTP	< 0.8 ms
max. ŕesistivity, per channel	≤ (5 + (1.176 x UB / UN - 1) x 100) Ω
type of switch function of the inputs	normally open contact
evaluation inputs	2-channel

supply circuit

nominal voltage UN	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	106.5 mm

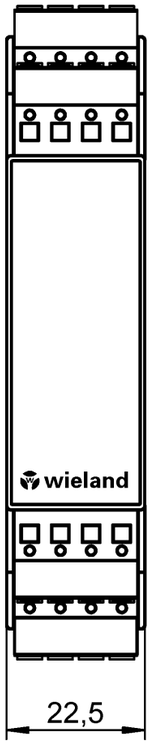
classification

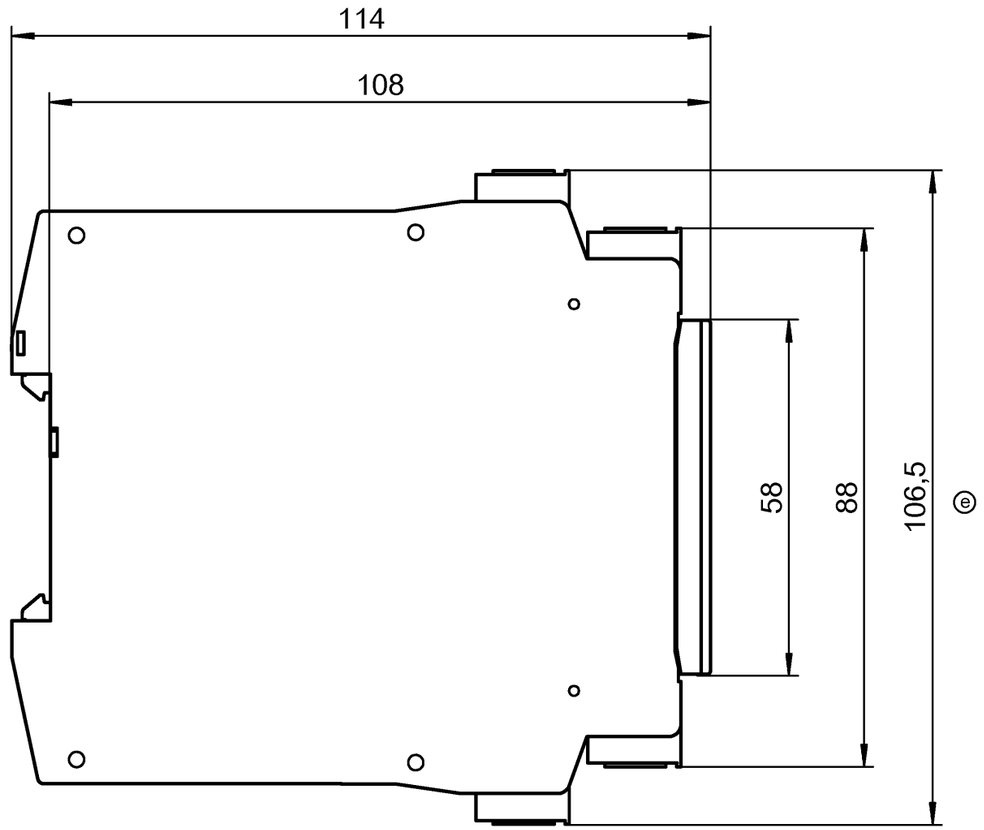
ECLASS 11	
ECLASS 8.1	27371819
ETIM 9.0	EC001449
ETIM 8.0	EC001449
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449

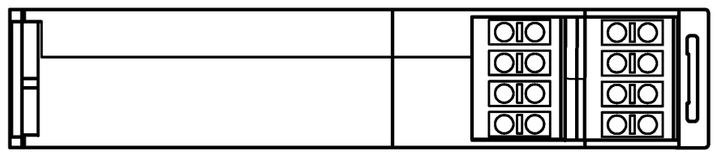
product compliance

ROHS conformity status	compliant/exempted
ROHS exceptions	III-7(c)I
REACH-SVHC conformity status	Duty-To-Declare
REACH-SVHC substances	Lead
REACH-SVHC CAS numbers	7439-92-1

Teile Nr. / Part No.	Teile Nr. / Part No.	
R1.188.1940.0	R1.188.3610.0	
R1.188.1950.0	R1.188.3630.0	
R1.188.1960.0	R1.188.3650.0	
R1.188.1970.0	R1.188.3670.0	ⓓ
R1.188.1980.0	R1.188.3730.0	
R1.188.1990.0	R1.188.3820.0	
R1.188.2000.0	R1.188.3850.0	
R1.188.2010.0	R1.188.3860.0	
R1.188.2020.0	R1.188.3900.0	
R1.188.2390.0	R1.188.3920.0	
R1.188.2410.0	R1.188.3940.0	
R1.188.2420.0	R1.188.4000.0	
R1.188.2430.0	R1.188.4010.0	
R1.188.2440.0	R1.188.4030.0	
R1.188.2450.0	R1.188.4130.0	ⓑ
R1.188.3400.0	R1.188.4140.0	
R1.188.3410.0	R1.188.4150.0	ⓒ
R1.188.3420.0	R1.188.4160.0	
R1.188.3430.0	R1.188.4210.0	ⓔ
R1.188.3490.0	R1.188.5000.0	ⓕ
R1.188.3600.0		







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:
		Werkstoff/Material	2014	Tag/Date	Name	Zeichnung Nr./Drawing No.
ⓕ	09.08.19		gezeichnet drawn	06.06.	Koetzner	T R1.188.1940.0 01K
ⓔ	26.08.16	Maßstab/Scale	geprüft checked			
ⓓ	22.04.16		Normgepr. Stand. check			Maße in mm/Dimensions are in mm
ⓒ	03.07.15	Datei/File: 036141_F01K.DCD	Ersatz für/Replacement for:			
ⓑ	30.06.15	wieland www.wieland-electric.com	Type	Benennung/Title	Maßbildzeichnung/Dimension drawing Standardgehäue 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						

Qu - PEE 12/92