

product data sheet

item no. R1.188.0500.1

device for monitoring of safety-related circuits SNO4003K-A AC/DC 24V (B)

Base unit, single channel control, automatic-/manual reset with reset switch monitoring, 3 enabling current paths, 1 signalling output, AC/DC 24 V 50-60Hz, screw-terminals pluggable



item no.	R1.188.0500.1
EAN	4015573808348
order unit	1 piece(s)

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 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 62061EN 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	screw connection

application

model	basic device
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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
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	8 A
max. thermal current I _{th} , signaling paths	5 A
max. total current I ² of all current path	9 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 ² s
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	24 V
input current (safety circuit / reset circuit)	90 mA
max. peak current (safety circuit / reset circuit)	1500 mA
response time tA1	60 ms
response time tA2	60 ms
min. switch-on time	60 ms
recovery time tW	> 200 ms
release time tR	< 80 ms
max. resistivity, per channel	# (5 + (1.333 x UB / UN - 1) x 200) #
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	3.2 VA
rated consumption DC	1.3 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

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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
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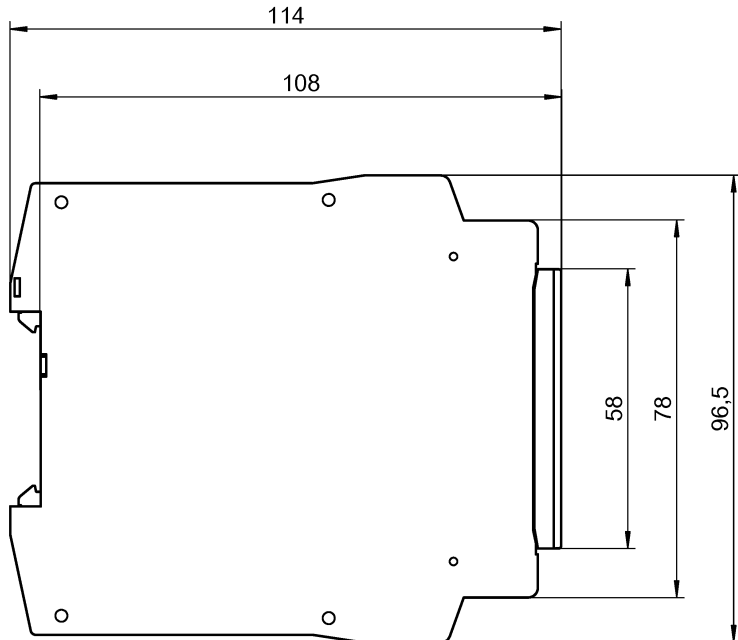
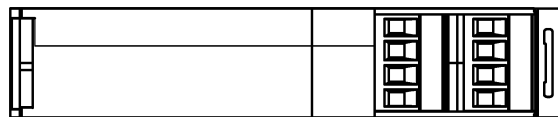
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Ⓐ 22.04.16 Maßstab/Scale				gezeichnet drawn		Zeichnung Nr./ Drawing No.	
Ⓑ 17.03.15				geprüft checked		T R1.188.0460.0 01K	
Ⓒ 03.02.15		Datei/ File: 030181_E01K.DCD		Normgepr. Stand: check		Maße in mm/Dimensions are in mm	
Ⓓ 04.07.14				Ersatz für/ Replacement for:			
Ⓐ 25.06.14		www.wieland-electric.com		Type		Benennung/ Title	
Index Datum/ Blatt Date/ Sheet						Maßbildzeichnung/dimension drawing	
Änderung/ Revision						Standardgehäuse u. -deckel, Baubreite 22,5mm, Schraubenklemmen steckbar standard housing and cover, overall with 22,5mm plug-in pcb terminal	

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