product data sheet

item no. R1.188.0590.0

device for monitoring of safety-related circuits SNE4004K-A AC/DC 24V (A)

output expansion unit, 4 enabling current paths, 3 signalling outputs, AC/DC 24 V 50-60Hz, screw-terminals fixed

item no.	R1.188.0590.0
EAN	4015573808645
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 mm² - 2.5 mm² / 2 x 0.2 mm² - 1.0 mm²
wire ranges screw terminals,fine-stranded with ferrules	1 x 0.25 mm² - 2.5 mm² / 2 x 0.25 mm² - 1.0 mm²
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
suitable for safety functions	yes
with muting function	no
feedback circuit	yes
start contact	no
stop category acc. to IEC 60204	0
rail mounting possible	yes

connection data

detachable clamps	yes
type of electric connection	screw connection

application

model	expansion device

suitable for monitoring of magnetic switches	no
suitable for monitoring of emergency-stop circuits	no
suitable for monitoring of optoelectronic protection equipment	no
suitable for monitoring of position switches	no
suitable for monitoring of tactile sensors	no

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 Ith, enabling paths	6 A
max. thermal current Ith, signaling paths	2 A
max. total current I^2 of all current path	40 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	3
outputs, signalling function, delayed, with contact	0
outputs, safe, undelayed, with contact	4
outputs, safe, delayed, with contact	0

control circuit

response time tA1	25 ms
response time tA2	25 ms
recovery time tW	> 40 ms
release time tR	< 20 ms
max. resistivity, per channel	# (5 + (1.176 x UB / UN - 1) x 100) #

supply circuit

nominal voltage UN	AC/DC 24 V
rated consumption AC	3.3 VA
rated consumption DC	1.6 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

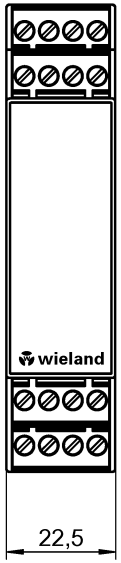
dimensions

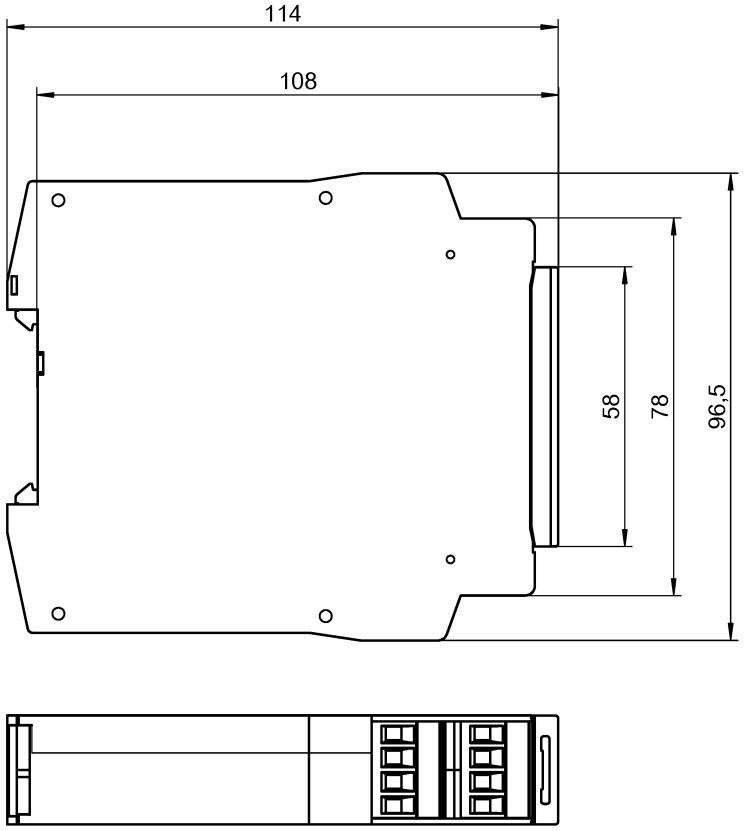
depth	114 mm
width	22.5 mm
height	96.5 mm

technical drawing

Teile Nr. / Part No.	Teile Nr. / Part No.	
R1.188.0460.0	R1.188.1840.0	
R1.188.0470.0	R1.188.1850.0	
R1.188.0480.0	R1.188.1860.0	
R1.188.0490.0	R1.188.1870.0	
R1.188.0500.1	R1.188.1880.0	
R1.188.0530.1	R1.188.1890.0	
R1.188.0590.0	R1.188.1900.0	
R1.188.0620.0	R1.188.1910.0	
R1.188.0640.0	R1.188.1920.0	
R1.188.0660.0	R1.188.1930.0	
R1.188.0680.0	R1.188.3250.0	
R1.188.0700.2	R1.188.3290.0	
R1.188.0720.2	R1.188.3360.0	
R1.188.0900.1	R1.188.3480.0	
R1.188.0910.1	R1.188.3580.0	
R1.188.0940.1	R1.188.3590.0	
R1.188.0950.1	R1.188.3620.0	
R1.188.0990.0	R1.188.3640.0	
R1.188.1000.0	R1.188.3660.0	
R1.188.1010.0	R1.188.3710.0	ⓔ
R1.188.1050.0	R1.188.3810.0	
R1.188.1060.0	R1.188.3830.0	
R1.188.1070.0	R1.188.3840.0	
R1.188.1120.0	R1.188.3910.0	
R1.188.1280.0	R1.188.3930.0	
R1.188.1340.0	R1.188.4020.0	
R1.188.1440.0	R1.188.4100.0	ⓐ
R1.188.1450.0	R1.188.4110.0	ⓑ
R1.188.1460.0	R1.188.4120.0	
R1.188.1480.0	81.030.0100.0	
R1.188.1810.0	81.030.0101.0	ⓓ
R1.188.1820.0	81.030.0110.0	
R1.188.1830.0	81.030.0111.0	

ⓒ





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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	Zeichnung Nr./ Drawing No.	
			gezeichnet drawn	06.06.	Kötzner	T R1.188.0460.0 01K	
ⓔ	22.04.16	Maßstab/Scale	geprüft checked				
ⓓ	17.03.15		Normgepr. Stand. check			Maße in mm/Dimensions are in mm	
ⓒ	03.02.15	Datei/ File: 030181_E01K.DCD	Ersatz für/ Replacement for:				
ⓑ	04.07.14	wieland www.wieland-electric.com	Type	Benennung/ Title	Maßbildzeichnung/dimension drawing Standardgehäuse u. -deckel, Baubreite 22,5mm, Schraubenklemmen steckbar standard housing and cover, overall with 22,5mm plug-in pcb terminal		
ⓐ	25.06.14						
Index	Datum/ Blatt Date/ Sheet						
Änderung/ Revision							

R1_188_0460_001K_2 CADW3072 Koetzner 2016-04-22T11:27:40 1.000