

## Datasheet

Art.No. R1.188.1620.0

Device for monitoring of safety-related circuits SNA4063K AC/DC 24V (A)

Base unit also for elevators EN 81-1/2 and heaters EN50156-1 single-channel or two-channel control, manual reset with reset switch m onitoring, cross circuit monitoring, 3 enabling current paths, 1 signalling output, AC/DC 24 V 50-60Hz, screw-terminals fixed



Art.No.	R1.188.1620.0
EAN	4015573827516
Order unit	1 pieces

## 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 0,14 mm <sup>2</sup> - 2,5 mm <sup>2</sup> / 2 x 0,14 mm <sup>2</sup> - 0,75 mm <sup>2</sup>
Wire ranges screw terminals, fine-stranded with ferrules	1 x 0,25 mm <sup>2</sup> - 2,5 mm <sup>2</sup> / 2 x 0,25 mm <sup>2</sup> - 0,5 mm <sup>2</sup>
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 <sup>2</sup> - 1,5mm <sup>2</sup>
Weight	0.21 kg
Standards	EN ISO 13849-1;EN 62061;EN 81-1;EN 50156-1
Suited for safety functions	Yes
Category according to EN ISO 13849-1	4
Muting possible	No
Feedback circuit	Yes
Start contact	Yes
Performance level acc. to EN ISO 13849-1	e
SIL according to IEC 62061	3
Stop category acc. to IEC 60204	
Rail mounting possible	Yes

### Connection Data

Detachable clamps	No
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
Suitable for monitoring of valves	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, signaling paths AC	230 V
Max. thermal current I <sub>th</sub> , enabling paths	8 A
Max. thermal current I <sub>th</sub> , signaling paths	5 A
Max. total current I <sub>z</sub> of all current path	25 A <sup>2</sup>
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 3A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral
Mechanical life	107 switching cycles
Outputs, signalling function, undelayed, with contact	1
Outputs, signalling function, delayed, with contact	0
Outputs, safe, undelayed, with contact	3
Outputs, safe, delayed, with contact	0

### Control circuit

Nominal output voltage DC	24 V
Input current (safety circuit / reset circuit)	25 mA
max. peak current (safety circuit / reset circuit)	100 mA
Response time t <sub>A1</sub>	100 ms
Min. switch-on time	100 ms
Recovery time t <sub>W</sub>	750 ms
Release time t <sub>R</sub>	10 ms
Permissible test pulse time t <sub>TP</sub>	1 ms
max. resistivity, per channel	≤ (5 + (1,176 × U <sub>B</sub> / U <sub>N</sub> - 1) × 100) Ω
Evaluation inputs	2-channel

### Supply circuit

Nominal voltage U <sub>N</sub>	AC/DC 24 V
Rated consumption AC	2.9 VA
Rated consumption DC	1.6 W
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Electrical isolation supply circuit - control circuit	yes (at U <sub>N</sub> = AC 42-48 V, AC 115-230 V, AC 230 V)
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

**Classification**

ECLASS 8.1	27371819: Device for monitoring of safety-related circuits
ETIM 5.0	EC001449: Device for monitoring of safety-related circuits
ETIM 4.0	EC001449: Device for monitoring of safety-related circuits
ETIM 3.0	EC001449: Emergency-stop relay

Drawings

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	M1	M2	M3	L	0	1	1	2	1
<p>Teile Nr. / Part No.</p> <p>R1-188.0400.1</p> <p>R1-188.0450.1</p> <p>R1-188.0520.0</p> <p>R1-188.0550.0</p> <p>R1-188.0560.0</p> <p>R1-188.0570.0</p> <p>R1-188.0580.0</p> <p>R1-188.0610.0</p> <p>R1-188.0630.0</p> <p>R1-188.0650.0</p> <p>R1-188.0670.0</p> <p>R1-188.0690.2</p> <p>R1-188.0710.2</p> <p>R1-188.0880.1</p> <p>R1-188.0890.1</p> <p>R1-188.0920.1</p> <p>R1-188.0930.1</p> <p>R1-188.0960.0</p> <p>R1-188.0970.0</p> <p>R1-188.0980.0</p> <p>R1-188.1020.0</p> <p>R1-188.1030.0</p> <p>R1-188.1040.0</p>		<p>Teile Nr. / Part No.</p> <p>R1-188.1110.0</p> <p>R1-188.1270.0</p> <p>R1-188.1330.0</p> <p>R1-188.1420.0</p> <p>R1-188.1430.0</p> <p>R1-188.1470.0</p> <p>R1-188.1620.0</p> <p>R1-188.1690.0</p> <p>R1-188.1690.0</p> <p>R1-188.1700.0</p> <p>R1-188.1710.0</p> <p>R1-188.1720.0</p> <p>R1-188.1730.0</p> <p>R1-188.1740.0</p> <p>R1-188.1750.0</p> <p>R1-188.1760.0</p> <p>R1-188.1770.0</p> <p>R1-188.1780.0</p> <p>R1-188.1790.0</p> <p>R1-188.1800.0</p> <p>R1-188.3100.0</p> <p>R1-188.3140.0</p> <p>R1-188.3210.0</p>		<p>weitere Angaben siehe KATALOG oder eKatalog. <a href="http://www.wieland-electric.com">www.wieland-electric.com</a></p> <p>Additional data see CATALOG or eCatalog. <a href="http://eshop.wieland-electric.com">eshop.wieland-electric.com</a></p> <p>Staffwerksteine sind deklarationsfrei nach DIN 5020.010 als einphasig.</p> <p>Conformity with Wieland document WM 5020.010 e (list of prohibited / degradable hazardous substances) to be declared</p> <p>Conformity with Wieland document WM 5020.010 e (list of prohibited / degradable hazardous substances) to be declared</p> <p>CE-Zeichnung mit den in der Zeichnung angegebenen Einzelteilen</p> <p>CE Drawing with the individual parts listed in the drawing</p> <p>Material / Matière</p> <p>2018 Top/2018 Name</p> <p>Legende 06.06. Normen</p> <p>Standard</p> <p>Zeichnung Nr. / Drawing No.</p> <p>T R1.188.0400.1 01K</p> <p>Made in Germany / Dimensionen sind in mm</p> <p>Bezeichnung / Title</p> <p>Standardgröße ist ca. 22,5mm, Standardgröße ist ca. 22,5mm, Standard housing and cover, overall width 22,5mm fixed post terminal</p> <p>03.02.15</p> <p>Index</p> <p>www.wieland-electric.com</p> <p>03.02.15</p> <p>Index</p> <p>www.wieland-electric.com</p>																									