

## Data sheet

Commercial Art.No.: R1.188.1440.0

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

Base unit also for elevators EN 81-20/50 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 pluggable



Commercial Art.No.	R1.188.1440.0
EAN	4015573827158
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 <sup>2</sup> - 2,5 mm <sup>2</sup> / 2 x 0,2 mm <sup>2</sup> - 1,0 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> - 1,0 mm <sup>2</sup>
Permissible torque min.	0.5 Nm
Permissible torque max.	0.6 Nm
Tightening moment	0.6 Nm
Weight	0.21 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
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Type of electric connection	screw connection
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### 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
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	25 A <sup>2</sup>
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 <sup>2</sup> s
Mechanical life	10 <sup>7</sup> 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 tA1	100 ms
Min. switch-on time	100 ms
Recovery time tW	750 ms
Release time tR	10 ms
Permissible test pulse time tTP	< 1 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 $U_N$	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	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

#### Classification

ECLASS 11	
ECLASS 8.1	27371819
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449
ETIM 4.0	EC001449
ETIM 3.0	EC001449

#### Safety parameters

Category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL <sub>Cl</sub> (IEC 62061)	3
PFD <sub>d</sub> (Low demand mode)	6.7 E-6
PFH <sub>d</sub> (High demand mode)	8.5 E-9 1/h
HFT	1
SSF	99.5 %
DC	99 %
MTTF <sub>d</sub>	132 a
T <sub>M</sub>	20 a
Proof test intervall (High demand mode)	20 a

#### Product compliance

ROHS conformity status	Compliant/Exempted
ROHS exceptions	III-6(c)
REACH-SVHC conformity status	Duty-To-Declare
REACH-SVHC substances	Lead
REACH-SVHC CAS numbers	7439-92-1