

# SNE 1

## CONTACT EXPANSION



### APPLICATIONS

- Duplication of the enabling current paths of a basic device
- Contact expansion in safety-oriented systems
- Up to PL c / Category 2 (EN ISO 13849-1)\*
- Up to SIL<sub>CL</sub> 1 (EN 62061)\*

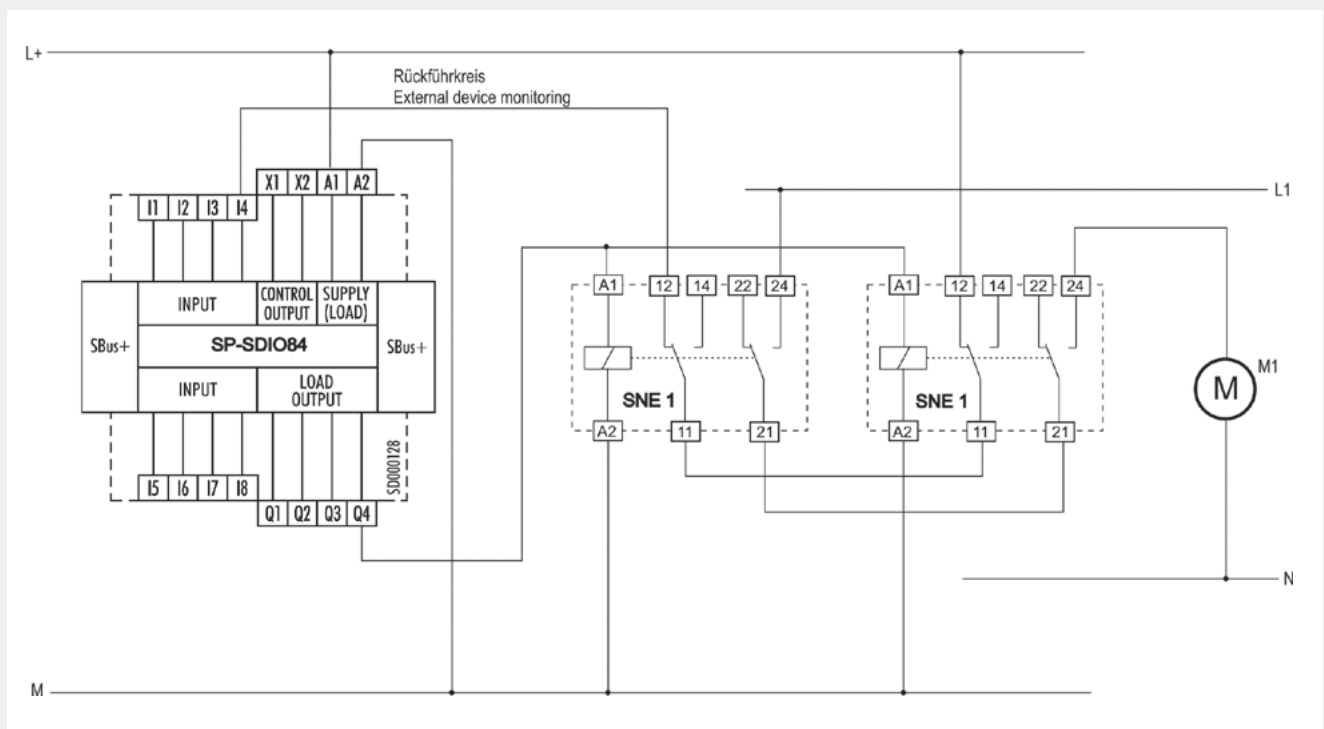
### FEATURES

- Stop Category 0 and 1 according to EN 60204-1
- Single-channel operation
- 2 changeover contacts (positively driven)
- Sturdy retaining bracket

\* Use up to PL e / category 4 possible (depending on the application and the category of the basic device or the safety control).

### CIRCUIT DIAGRAM

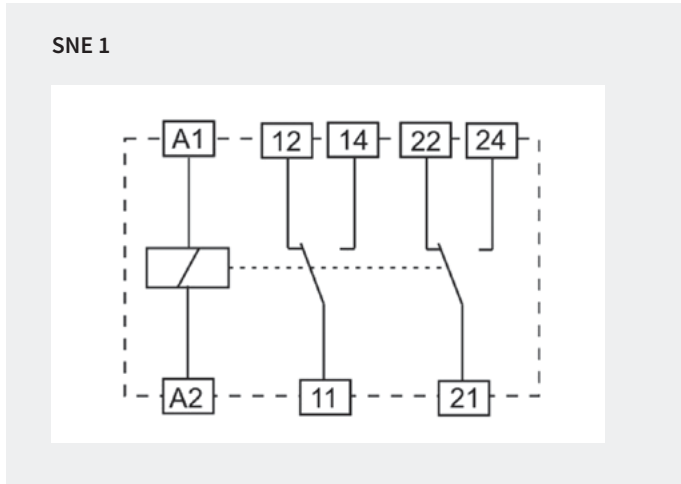
#### SNE 1



**OVERVIEW OF DEVICES | PART NUMBERS**

Type	Rated voltage	Terminals	Part no.	P.U.
SNE 1	24 V DC	Screw terminals	R1.188.3950.0	1

**CIRCUIT DIAGRAM**



TECHNICAL DATA		
Function		Emergency stop expansion relay
Function display		none
<b>Power supply circuit</b>		
Rated voltage $U_N$	A1/A2	24 V DC
Rated consumption		0.7 W
Operating voltage range $U_B$		0.63 - 1.25 x $U_N$
Electrical isolation supply circuit - control circuit		yes
<b>Control circuit</b>		
Input current / peak current	A1/A2	ca. 29 mA
Response time $t_{A1}$ / $t_{A2}$		12 ms
Release time $t_R$		< 20 ms
<b>Output circuit</b>		
Enabling paths	11/12/14, 21/22/24	changeover contact
Contact assignment		forcebly guided
Contact type		Ag-alloy
Rated switching voltage		230 V AC, 24 V DC
Max. thermal current $I_{th}$		8 A
Max. total current $I^2$ of all current path	( $T_u = 55\text{ °C}$ )	72 A <sup>2</sup>
Application category (NO)	AC-15	$U_e$ 230 V, $I_e$ 2 A
	DC-13	$U_e$ 24 V, $I_e$ 3 A
Short-circuit protection (NO), lead fuse / circuit breaker		6 A class gL / melting integral < 100 A <sup>2</sup> s
Mechanical life		10 x 10 <sup>6</sup> switching cycles
<b>General data</b>		
Creepage distances and clearances between the circuits		EN 61810-5
Protection degree according to EN 60529 (housing / terminals)		IP20 / IP20
Ambient temperature / storage temperature		-40 °C - +70 °C / -40 °C - + 70
Wire range	fine-stranded / solid	0.25 mm <sup>2</sup> – 4.0 mm <sup>2</sup> (AWG 24-12) / 0.25 – 6.0 mm <sup>2</sup> (AWG 24-10)
Permissible torque		0.5 Nm
Weight		0.06 kg
Standards		EN 50205 (Type B)
Approvals		cURus