



OVERVIEW OF DEVICES | PART NUMBERS

Type	Time range	Rated voltage	Terminals	Part no.	P.U.
SNE 4004K-A	–	24 V AC/DC	Screw terminals, pluggable	R1.188.0590.0	1
SNE 4004K-C	–	24 V AC/DC	Push-in terminals, pluggable	R1.188.1980.0	1
SNE 4004KV-A	0.5 s	24 V DC	Screw terminals, pluggable	R1.188.0460.0	1
	1 s	24 V DC	Screw terminals, pluggable	R1.188.0470.0	1
	2 s	24 V DC	Screw terminals, pluggable	R1.188.0480.0	1
	3 s	24 V DC	Screw terminals, pluggable	R1.188.0490.0	1
SNE 4004KV-C	0.5 s	24 V DC	Push-in terminals, pluggable	R1.188.2410.0	1
	1 s	24 V DC	Push-in terminals, pluggable	R1.188.2420.0	1
	2 s	24 V DC	Push-in terminals, pluggable	R1.188.2430.0	1
	3 s	24 V DC	Push-in terminals, pluggable	R1.188.2440.0	1

TECHNICAL DATA

Function	Emergency stop expansion relay		
Function display	2 LEDs, green		
Function mode / adjustment	Time, fixed		
Adjustment range	0,5 s / 1 s / 2 s / 3 s		
Power supply circuit			
Rated voltage U_N	A1, A2	24 V DC / 24 V AC/DC	
Rated consumption	24 V DC 24 V AC/DC	1.2 W 1.7 W / 3.1 VA	
Rated frequency	50 - 60 Hz		
Operating voltage range U_B	0.85 - 1.1 x U_N		
Electrical isolation supply circuit - control circuit	non		
Control circuit			
Input current / peak current	A1, A2	65 mA / 1800 mA	
Response time t_{A1} / t_{A2}	20 ms		
Minimum ON time t_M	0,15 x t_R		
Recovery time t_W	≤ 200 ms		
Release time t_R	40 ms		
Release time $t_{R, \text{delayed contacts (tolerance)}}$	0.5 s / 1 s / 2 s / 3 s (± 35 %)		
Max. resistivity, per channel ¹⁾	≤ (2.5 + (1.176 x U_B / U_N - 1) x 50) Ω		
Output circuit			
Enabling paths	13/14, 23/24, 33/34, 43/44	normally open contact	
	17/17, 27/28, 37/38, 47/48	normally open contact, time delayed	
Signaling paths	51/52, 61/62	normally closed contact	
	55/56, 65/66	normally closed contact, time delayed	
Contact assignment	forcebly guided		
Contact type	Ag-alloy, gold-plated		
Rated switching voltage	enabling / signaling path	230 V AC	
	Y1/Y2	230 V AC	
Max. thermal current I_{th}	enabling / signaling path	6 A / 2 A	
	Y1/Y2	2 A	
Max. total current I^2 of all current path	($T_u = 55$ °C)	9 A ²	
Application category (NO)	AC-15 DC-13	U_e 230 V, I_e 5 A U_e 24 V, I_e 5 A	
Short-circuit protection (NO), lead fuse / circuit breaker	6 A class gG / melting integral < 100 A ² s		
Mechanical life	10 ⁷ switching cycles		
General data			
Creepage distances and clearances between the circuits	EN 60664-1		
Protection degree according to EN 60529 (housing / terminals)	IP40 / IP20		
Ambient temperature / storage temperature	-25 °C - +55 °C / -25 °C - + 75 °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	
	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	0,5 - 0,6 Nm		
Wire ranges push-in terminals	1 x 0.25 mm ² – 1.5 mm ²		
Weight	0.20 kg		
Standards	EN ISO 13849-1, EN 62061		
Approvals	DGUV, cULus, CCC		

¹⁾ If two-channel devices are installed as single channel, the value is halved.