Safety relays - S² series

- Contact expansion device for safety relays S² series
- 4 delayed enabling current paths
- 2 signaling current paths
- 1 check-back current path
- For applications up to safety category 4
- Stop category 1
- Width 22.5mm
- Industrial design

Technical data

1. Functions

Contact expansion device with fixed delay time proper for all safety relays series $S^2. \ \mbox{Maximum safety category depends on selected base}$ unit and wiring.

2. Indicators

Green LED R1 ON/OFF: Green LED R2: ON/OFF

Safety channel 1 enabled Safety channel 2 enabled

3. Mechanical design

Self-extinguishing plastic housing, IP rating IP40 Mounted on DIN-Rail TS 35 according to EN 50022 Mounting position: any Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20

Tightening torque: 0.5 to 0.6Nm Terminal capacity: 2 x 0.14 to 0.75mm² without multicore cable end 1 x 0.14 to 2.5mm² without multicore cable end

 2×0.25 to 0.5mm² flexible with multicore cable ends 1×0.25 to 2.5mm² flexible with multicore cable ends

4. Input circuit

Supply voltage: 24V DC terminals A1-A2 Tolerance: 24V DC -15% to +10% Rated frequency: 50 to 60Hz Rated consumption: 24V DC 2.7VA (1.5W) Duration of operation: 100% Residual ripple: 2.4Vss

5. Output circuit

4 forced and delayed normally open contacts (enabling current paths) 2 forced and delayed normally closed contacts (signaling current paths) 1 forced and delayed normally open contact (check-back current path) Delay time (OFF delay): fixed 3s Rated voltage: 230V AC/DC Rated current of enabling paths: max. 6A gG 6A (MCB 6 B or C) Fusing: max. 2A Rated current of signaling contacts: Rated current of check-back contact: max. 0.1A Total current of all paths: max 12A 10 x 10⁶ operations Mechanical life: Switching capacity (in accordance with IEC 60947-5-1): max. 60/min (AC-15: 6A/230V AC) max. 60/min (DC-13: 3A/24V DC) (DC-13: 6A/24V DC) max 6/min Insulation voltage: 300V AC (in accordance with IEC 60664-1) Surge voltage: 4kV Overvoltage category: Ш (in accordance with IEC 60664-1) Response time t_A R1, R2: 20ms Reset time t_R R1, R2: 40ms

6. Safety circuit Function:

Connection:

Safety channel 1: Safety channel 2:

Cross monitoring: -Galvanic separation to power supply:

7. Ambient conditions Ambient temperature:

Storage temperature: Transport temperature: Relative Humidity:

Pollution degree:

connection to base unit A1 and A2 via enabling path of base unit to power supply resp. GND A1-24V DC A2-GND (for safety category 4)

-25 to +55°C (in accordance with IEC 68-1) -25 to +70°C -25 to +70°C 83% (bei 23°C), 93% (bei 23°C), 93% (bei 40°C) in accordance with DIN 50016 3 outside, 2 inside (in accordance with IEC 60664-1)

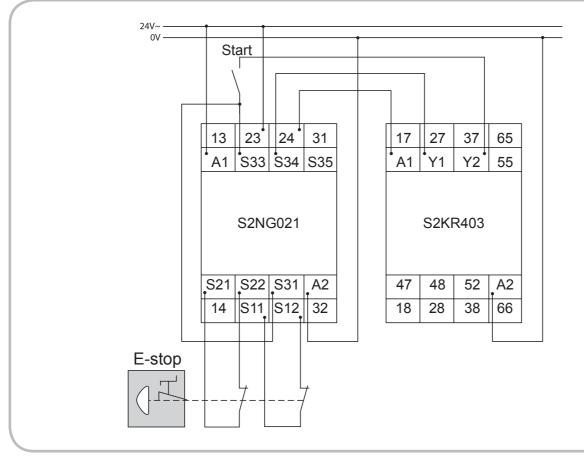


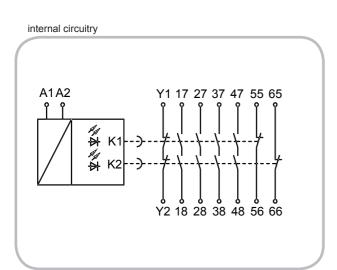
S2KR403

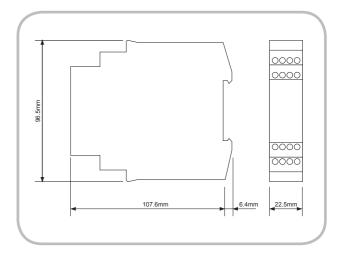
S2KR403

Connections

S2KR403 connected to S2NG021







Dimensions

www.tele-power-net.com

