

- ▶ Evaluation device for two-hand actuators (according to DIN EN 574 Typ IIIC)
- ▶ Two-channel control with 1NO and 1NC contact per channel
- ▶ Cross monitoring
- ▶ Monitoring of simultaneous activation
- ▶ 2 enabling current paths
- ▶ 1 signaling current path
- ▶ For applications up to safety category 4
- ▶ Stop category 0
- ▶ Width 22.5mm
- ▶ Industrial design



Technical data

1. Functions

Evaluation device for two-hand actuators.

2. Indicators

Green LED U ON: indication of supply voltage
 Green LED K1 ON/OFF: safety channel 1 and 2 activated
 Green LED K2 ON/OFF: indication of simultaneous activation

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, 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 x 0.25 to 0.5mm² flexible with multicore cable ends
 1 x 0.25 to 2.5mm² flexible with multicore cable ends

4. Input circuit

Supply voltage: 24V AC/DC terminals A1-A2 (other voltages on request)
 Tolerance: 24V AC/DC -15% to +10%
 Rated frequency: 50 to 60Hz
 Rated consumption: 24V AC/DC 3.2VA (2.6W)
 Duration of operation: 100%
 Residual ripple bei DC: 2.4Vss

5. Output circuit

2 forced normally open contacts (enabling current paths)
 1 forced normally closed contact (signaling current path)
 Rated voltage: 240V AC /300V DC
 Rated current of enabling paths: max. 6A
 Rated current of signaling contacts: max. 6A
 Fusing: gG 6A (MCB 6 B or C)
 Total current of all paths: max. 12A
 Mechanical life: 10 x 10⁶ operations
 Switching capacity (according to IEC 947-5-1):
 max. 6/min (AC-15: 4A/230V AC)
 max. 60/min (AC-15: 3A/230V AC)
 max. 6/min (DC-13: 4A/24V DC)
 max. 60/min (DC-13: 2.5A/24V DC)
 Insulation voltage: 300V (according to IEC 664-1)
 Surge voltage: 4kV, overvoltage category III (according to IEC 664-1)
 Release time t_R K1, K2: 40ms

6. Safety circuit

Function: connection of actuators with 1 No and 1NC safety contact according to DIN EN 574 IIIC
 Rated voltage: 24V DC
 Rated current: 40mA
 Peak current: 100mA
 Short circuit protection: PTC-resistor
 Channel 1 (CH1): terminals Y11-Y12-Y14
 Channel 2 (CH2): terminals Y21-Y22-Y24
 Simultaneous time (CH1 vor CH2): max. 500ms
 Simultaneous time (CH2 vor CH1): max. 500ms
 Cross monitoring (CH1, CH2): Yes
 Galvanic separation to power supply: No

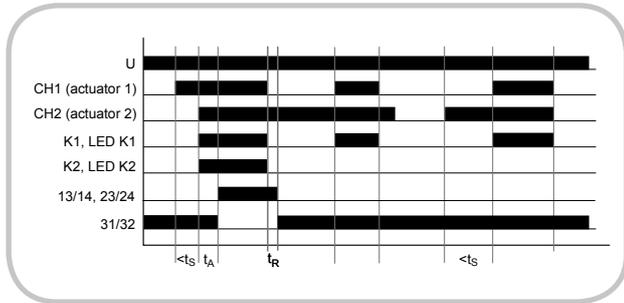
7. Ambient conditions

Ambient temperature: -25 to +55°C (according to IEC 68-1)
 Storage temperature: -25 to +70°C
 Transport temperature: -25 to +70°C
 Relative Humidity: max. 83% (bei 23°C), max. 93% (bei 40°C) according to DIN 50016
 Pollution degree: 3 outside, 2 inside (according to IEC 664-1)

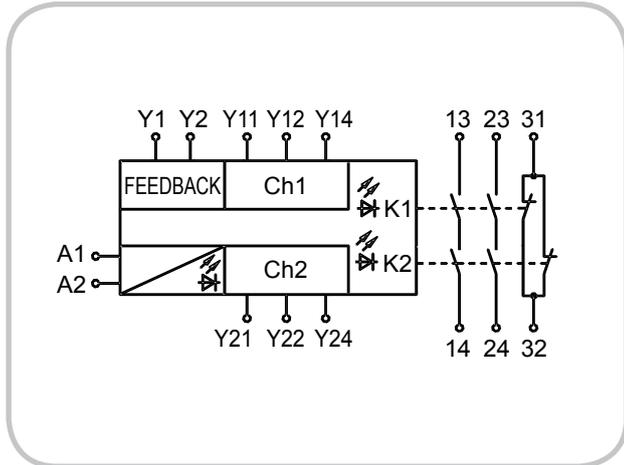
Functions

Evaluation device for two-hand actuators

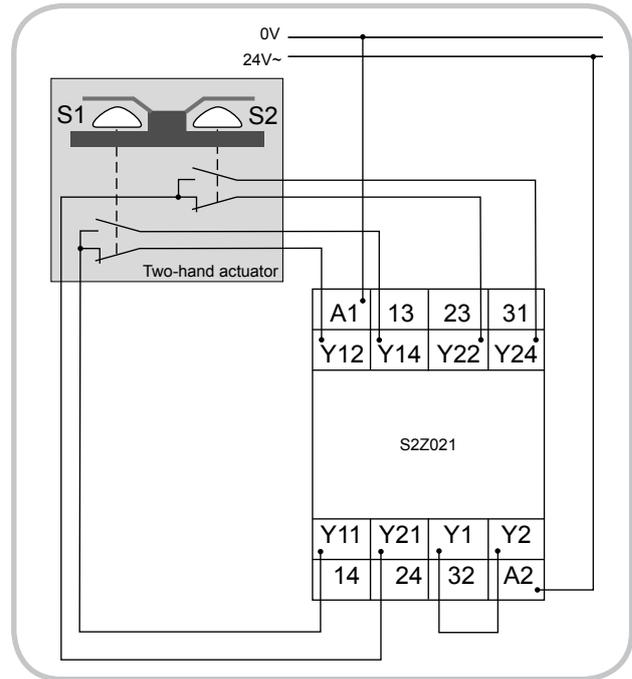
After the supply voltage is applied to terminals A1-A2 (green LED U illuminated) and with closed feedback circuit (terminals Y1-Y2 bridged), the enabling current paths are closed by activating simultaneously the actuators S1 and S2. Both momentary contact switches have to be activated within the simultaneously time of 0.5s for the output contacts to be enabled. If only one of the two hand switches is released, the device is immediately de-excited and the enabling current paths open. The relay can be restarted only after both actuators have returned to their initial position and the feedback circuit is closed again.



Internal circuitry



Connections



Dimensions



Subject to alterations and errors