



Emergency stop and safety gate monitoring relays

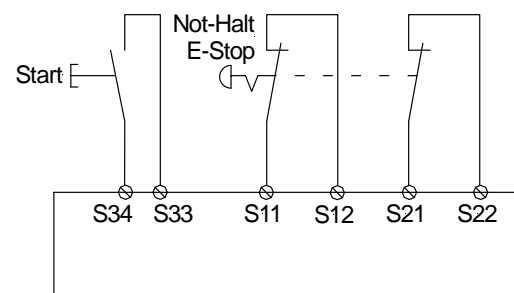
Printing 11.03.2016

→ DEVICE	SAFE 2 / SAFE 2.1
→ APPLICATIONS	Emergency stop and safety gate monitoring relay
→ APPROVALS	CE, TÜV, UL, C-UL
→ CONTACTS	2 normally open safety
→ SPECIAL CHARACTERISTICS	LED indicators for status and supply diagnostic With (SAFE 2) and without (SAFE 2.1) start control
→ LED	Power, channel 1 and channel 2
→ OPERATING VOLTAGE	24 V AC / DC (electronic fuse)
→ POWER CONSUMPTION	ca. 2,5 VA / 2,5 W
→ START UP DELAY / FALLBACK TIME	<50 ms / <30 ms
→ CONTACT CAPACITY max.	6 A, 250 V AC, 24 V DC
→ CONTACT CAPACITY min. at 24 V DC (*)	6 mA
→ SIMULTANEITY	
→ ENVIRONMENTAL TEMPERATURE	-25°C to + 55°C
→ SWITCHING CAPACITY	1500 VA (resistive load)
→ CONTACT SECURITY	6,3 A quick acting or 4 A time lag

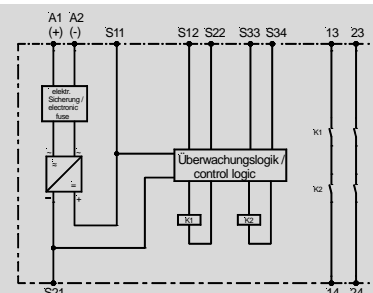
→ **OPERATING MODE**
 (*) We offer all devices who have a CONTACT CAPACITY of min. 100 mA at 24 V DC with hard gold-plated contacts. In this way the CONTACT CAPACITY of min. 100 mA is only 4 mA. Please ask our sales team!

A supply voltage must be applied to terminals A1 and A2. Power LED illuminates and 24 V DC is available at terminal S11. Terminals S12 and S22 must be connected according to the application example selected to meet the application requirements. To start the unit terminals S33 and S34 must be bridged with a normally open contact. The unit works if you close this contact. At this time the contacts 13-14 and 23-24 are closed. The LEDs channel 1 and channel 2 illuminate. In series to this start button an external contactor can be controlled.

→ **CONNECTION DIAGRAM**



→ **FUNCTION CIRCUIT DIAGRAM**



→ **Certifications according to Safety relevant substance data**
 Depending on wiring (only max. achievable values are given)

EN ISO 13849-1: PLe, Cat. 4
 MTTFd: 69 years / high, DC: 99% / high,
 CCF: achieved