



Emergency stop and safety gate monitoring relays

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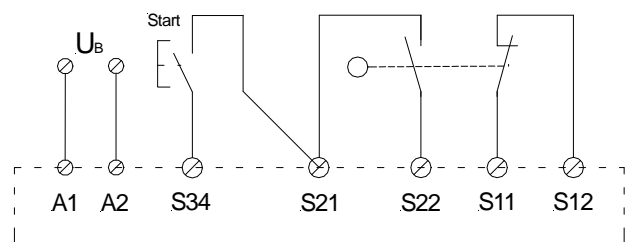


→ DEVICE	SAFE 4.3 eco
→ APPLICATIONS	Safety gate monitoring relay, Safety magnetic switch
→ APPROVALS	Suitable for release button with reed contact outputs
→ CONTACTS	CE, TÜV, UL, C-UL
→ SPECIAL CHARACTERISTICS	3 normally open safety, 1 normally auxiliary closed LED indicators for status and supply diagnostic
→ LED	Opposite polarity between channels
→ OPERATING VOLTAGE	With and without start control (selectable)
→ POWER CONSUMPTION	Power, channel 1 and channel 2
→ START UP DELAY / FALLBACK TIME	24 V AC / DC (electronic fuse)
→ CONTACT CAPACITY max.	115, 230 V AC (with galvanic disconnection / transformer)
→ CONTACT CAPACITY min. at 24 V DC (*)	24 V DC: 1,5 W / AC: 3,6 VA
→ SIMULTANEITY	200 ms / <10 ms ready after time delay <0,5 s
→ ENVIRONMENTAL TEMPERATURE	5 A, 240 V AC, 24 V AC / DC
→ SWITCHING CAPACITY	10 mA
→ CONTACT SECURITY	-25°C to + 55°C
	1200 VA (resistive load)
	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 at terminals A1 and A2. The power LED lights. Terminals S11, S12, S21 and S22 have to be wired up as shown in the application examples. To start the unit, follow the examples described in the start applications section. In series to the start-button an external contactor can be controlled (see application example). After activation the contacts 13-14, 23-24 and 33-34 are closed, contact 41-42 is opened. The LEDs channel 1 and channel 2 are lit.

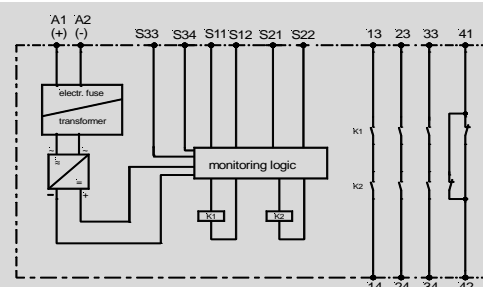
For version with detachable clamps (screw - or cage clamps) ... please ask our sales team!



→ **CONNECTION DIAGRAM**

Safety gate with monitored start button logic and antivalent switching safety gate contacts.

→ **FUNCTION CIRCUIT DIAGRAM**



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

EN ISO 13849-1 / DIN EN 61508 / DIN EN 62061: PL_e, Cat. 4 / SIL3
MTTFd: 910 years / high, DC: 99% / high, CCF: achieved,
PFH: 2,32*10⁻⁹ 1/h, SFF: > 99%, HFT: 1