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Emergency stop and safety gate monitoring relays

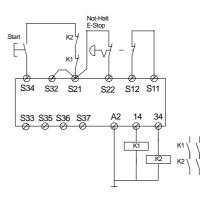
DEVICE SAFE C1 Safety controller for e-stop APPLICATIONS and gate monitoring applications **APPROVALS** CE, TÜV, UL, C-UL CONTACTS 4 safety semiconductor outputs (OSSD) LED indicators for status and supply diagnostic SPECIAL CHARACTERISTICS Wearless semiconductor outputs , "AND", "OR" functions possible between several SAFE C1 Automatic start possible LED Power, channel 1 and channel 2 + flashing code 24 V DC (+ 25 - 20 %) OPERATING VOLTAGE Overvoltage protection POWER CONSUMPTION ca. 3 W START UP DELAY / FALLBACK TIME <70 ms / <30 ms **CONTACT CAPACITY max.** total current 1,8 A CONTACT CAPACITY min. at 24 V DC (*) infinite SIMULTANEITY no (special variants possible) **ENVIRONMENTAL TEMPERATURE** -25°C to + 55°C SWITCHING CAPACITY up to 43 W CONTACT SECURITY short circuit proof 2-channel e-stop application with monitoring of reset circuit, opposite channels polarity and contact expansion. The release button must be attached to the e-stop circuits (S11 / S12, S21 / S22) and the **OPERATING MODE**

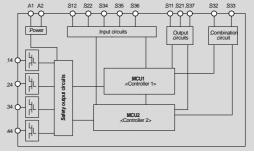
The release button must be attached to the e-stop circuits (S11 / S12, S21 / S22) and the start button must be attached to the reset-circuit (S34 / A1). The activation of the semiconductor safety outputs takes place after closing of the reset circuit (pressing the start button).

By linkage more SAFE C1 with one another safety applications also complicated, with which different components are to be differently supervised, can be realized.

For monitoring of the external contactor, the NC contacts of the force guided contactors must be attached in series to the reset circuit.

A1 + 24 V DC A2 0 V DC





CONNECTION DIAGRAM

Please ask our sales team!

FUNCTION CIRCUIT DIAGRAM

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

(*) 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.

> EN ISO 13849-1/ EN 61508: PLe, Cat. 4 / SIL3 MTTFd: 163 years / high, DC: high, CCF: achieved, PFH: 2,87*10⁻⁹ 1/h, PFD: 2,01*10⁻⁶ 1/h, SFF: 0,9573