



Printing 11.03.2016

E-stop / mat-, edges-control relays

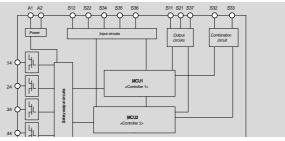
DEVICE SAFE CM Safety controller for safety mats and safety bars with a **APPLICATIONS** or a finalizing resistor 8,2 kOhms **APPROVALS** CE, TÜV, UL, C-UL CONTACTS 4 safety semiconductor outputs (OSSD) LED indicators for status and supply diagnostic SPECIAL CHARACTERISTICS wearless semiconductor outputs, "AND" function between several SAFE C possible, automatic start possible Power, channel 1 and channel 2 LED 24 V DC (+25 - 20 %) **OPERATING VOLTAGE Overvoltage protection** POWER CONSUMPTION ca. 3 W START UP DELAY / FALLBACK TIME <30 ms / <140 ms (single channel <360 ms) CONTACT CAPACITY max. total current 1,8 A CONTACT CAPACITY min. at 24 V DC (*) infinite SIMULTANEITY not necessary ENVIRONMENTAL TEMPERATURE -25°C to + 55°C SWITCHING CAPACITY to 43 W CONTACT SECURITY short circuit proof

> 4 wire technology with wire break protection or 2 wire technology and terminating resistor with wire break protection are optional. Start monitoring and automatic start are optional. For monitoring of external relays to n.c. contacts are put in series of the start circuit "AND" function among several SAFE C is possible.

A1 + 24 V DC A2 0 V DC

> S11 S35 S36 S37 S21 S32 S34 A2 14 S33 S12 S22 K1

К1



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CONNECTION DIAGRAM

OPERATING MODE

Please ask our sales team!

(*) 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.

FUNCTION CIRCUIT DIAGRAM

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

EN ISO 13849-1 / EN 61508: PLe, Cat. 4 / SIL3 MTTFd: 163 years / high, DC: high, CCF: achieved, PFH: 2,87*10⁹ $^{1}/_{h}$, PFD: 2,01*10⁶ $^{1}/_{h}$, SFF: 0,9573