Application

The contact extension FMSC-R / 2R is used for extension, Contact amplification and galvanic isolation of electronic Safety outputs (OSSDs).

This allows to switch different potentials and electric circuits, even with high loads.

The device offers depending on the type:

- FMSC-R offers a relay function according to PL e according to ISO 13849-1.
- FMSC-2R offers two relay functions according to PL e according to ISO 13849-1.

3 NO contacts are provided per relay function, In addition, there is an NC contact for monitoring.

Scope of operation

- Integration of electronic safety outputs into other potentials, without loss of safety
- 1 or 2 safety circuits each with 3 undelayed positively driven safety contacts
- Feedback circuit for relay monitoring at the control unit
- Diagnostic LEDs for the switching status of the safety contacts

Product recommendation

Suitable accessories for safe contact expansion FMSC-R

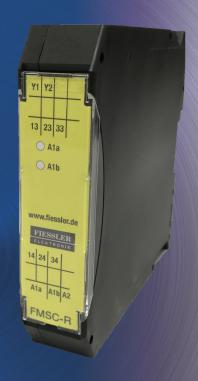
can be found at

www.fiessler.de

FIESSLER ELEKTRONIK

FMSC-R/2R

safe contact extension





Technical specification

Power supply

Tolerance range

Output contact

Braking capacity at 240V AC

13 14, 23 24

Braking capacity at 160V AC

33 34

Braking capacity at 24V DC 13 14, 23 24, 33 34

Recommended external Supply circuit fuse

Recommended external break contact fuse

Times

Trigger time Fall time

mechanical specification

Terminal connection

Design size (hxbxt) without connectors Installation on top hat rail weight (without connectors)

Operating temperatur Mechanical lifetime

Operation modes

FMSC-R/2R

24V DC

18 ... 30,0 V DC max. 10% voltage ripple

safety contact: 3 / 6

Imin: 0,01A, Imax: 8A resistive

Imin: 0,01A, Imax: 8A resistive

Imin: 0,01A, Imax: 8A

T1,0A

8A slow

FMSC-R/2R

12 ms 8 ms

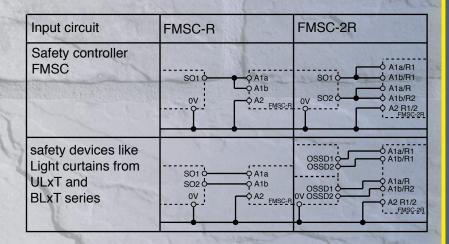
FMSC-R/2R

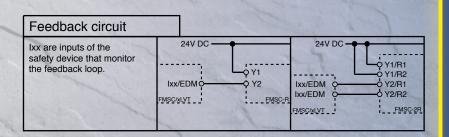
screw type

114,5mm x 22,5mm x 99mm DIN 50 022 130g

-40°C...+80°C $>20 \times 10^6$

FMSC-R/2R





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FMSC-R/2R safe contact extension

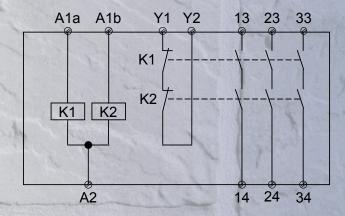
technical data



- One relay function PL e according to ISO 13849-1.
- 3 NO contacts and 1 NC contact
- 2 diagnostic LEDs

Block diagram

FMSC-R



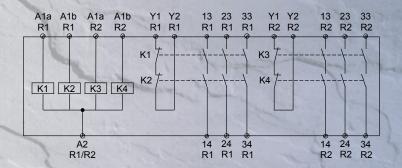
Features and benefits

FMSC-2R

- Two relay functions PL e according to ISO 13849-1.
- Each channel: 3 NO contacts and 1 NC contact
- 2 diagnostic LEDs

Block diagram

FMSC-2R



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FMSC-R / 2R safe contact extension

technical data



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The delivery programme



Innovative solutions

Safety light curtains

Type 4, SIL 3, PL e high range up to 60 m

Very short response time as of 2 ms

Blanking and cascading

Type 2, SIL 1, PL c

Protective field height up to 2500 m Finger and hand guard, entrance

protection

Safety controller integrated

AKAS® press brake safety system

fully automatic adjustment

after tool change laser-optics safety light grid innovative finger guard through continuous bending without stop

FMSC safety PLC

Emergency shutdown (fast shut down) max. 0.5 ms

Easiest programming Cat 4, SIL 3, PL e

Expandable with up to 16 expansion modules

Safety contact mats

Type 3, SIL 2, PL d

Series connection of up to

ten mats

Load capacity up to 2000N

single component casting also

in several colors

individual sizes and shapes Polyurethane, aluminum or Stainless steel surface with integrally cast ramp rail

available

Safety laser scanner

Cat 3, SIL 2, PL d

Protective field 4 m, range 7 m

Metering section 50 m range

Easy assembly Warning field 15 m

Several programmable sections

Safety foot pedals

Single-pedal or double-pedal

Controlling, detecting and measuring

Measuring light curtains

Loop sensors

Hole detectors

Encoding strips

Directional counting light barriers

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