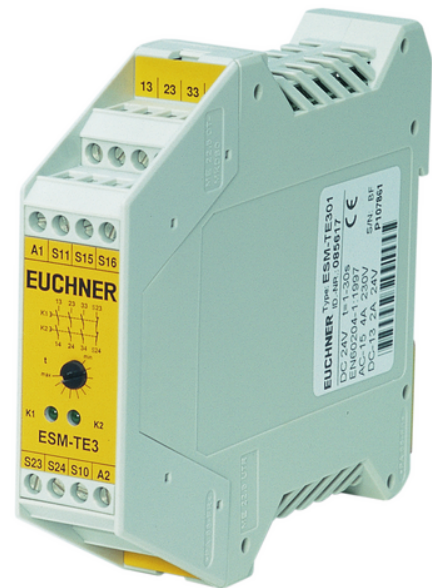


ESM-TE301 (Order no. 085617)

Contact expansion ESM-TE., 3 safety contacts, 1 auxiliary contact, time-delay, cat. 3

- ▶ Use up to category 3 according to EN ISO 13849-1
- ▶ LED status indicators
- ▶ Control via safety base modules
- ▶ 3 redundant time-delayed safety contacts
- ▶ Delay time range 1 s–30 s
- ▶ 1 auxiliary contact
- ▶ Earth fault/ground fault monitoring can be selected



Relay outputs

The outputs are electrically decoupled and of redundant design.

Connection

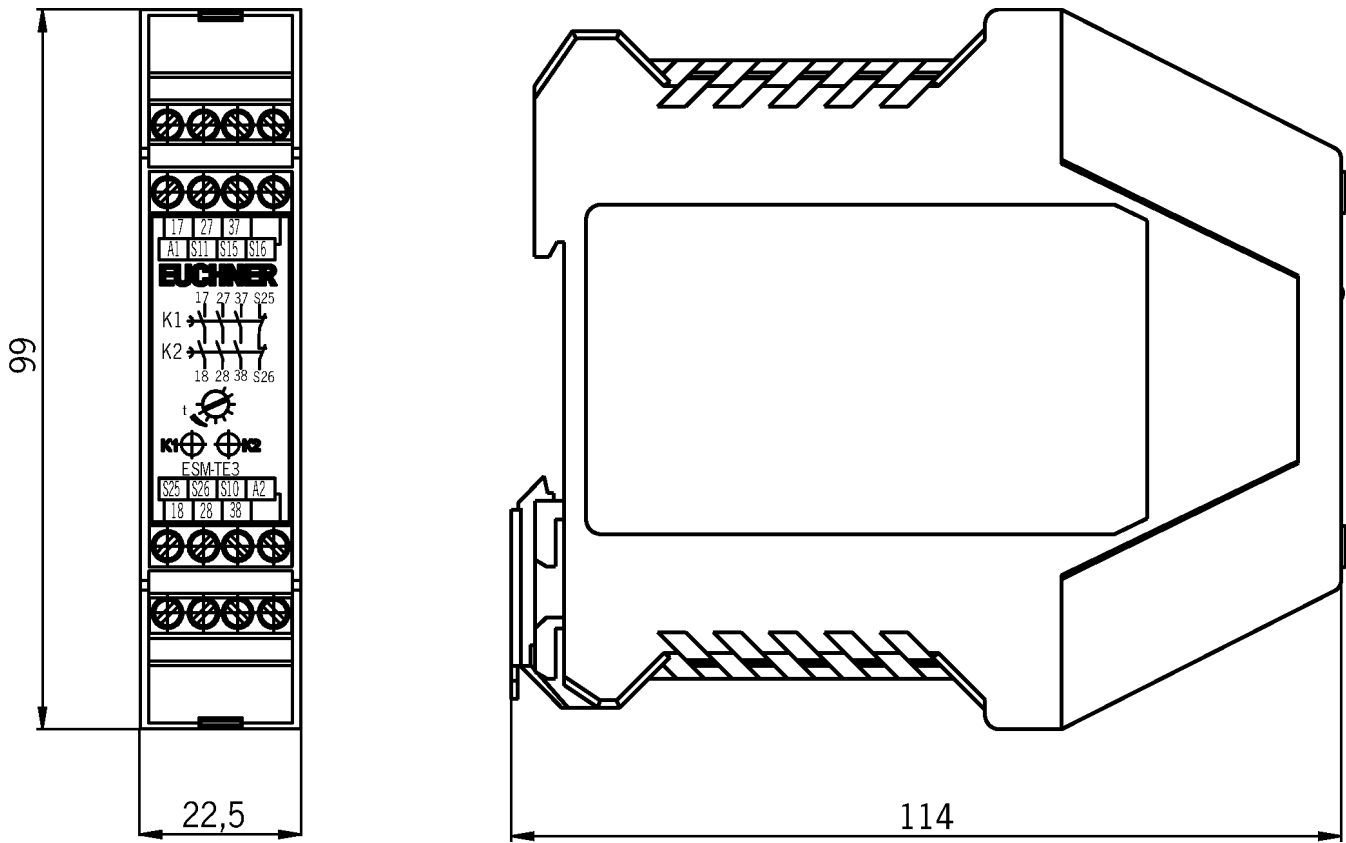
By using suitable wiring the following function can be selected:

- ▶ Earth fault/ground fault monitoring to detect short circuits between the connecting cables and earth or ground and to shut down the outputs or prevent relay starting if necessary.

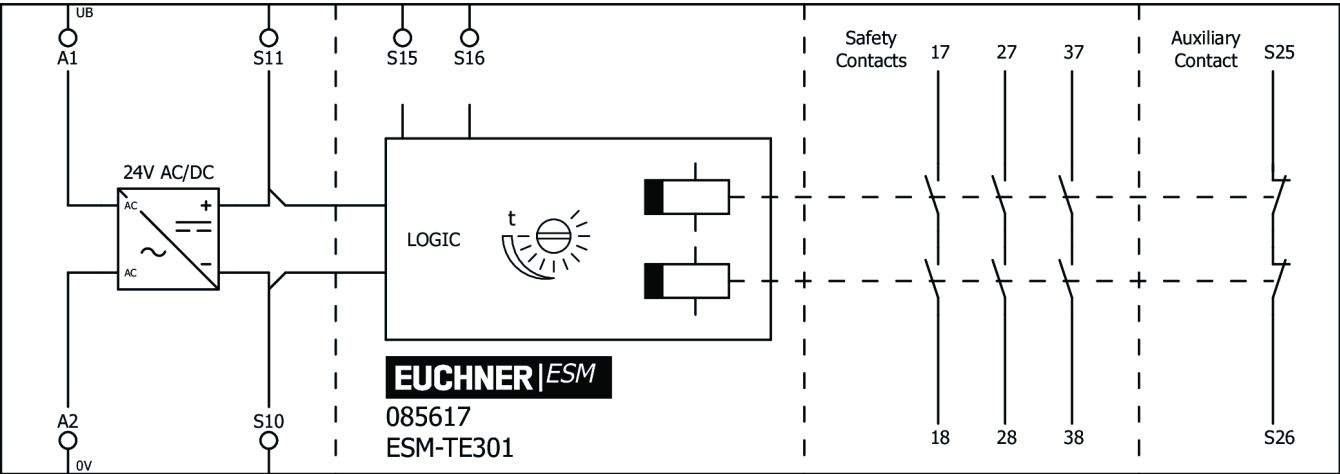
Time-delayed shutdown

The release time for the time-delay contacts can be set as required using a potentiometer on the safety relay.

Dimensional drawings



Connection examples



Technical data

Approvals

Zulassung EAC Zulassung TÜV Rheinland, BMPB mit ZG: Product Safety, Functional Safety Zulassung c_UL_us LISTED

Mechanical values and environment

Housing material

Housing Polyamide PA6.6

Weight

Net 0,23 kg

Ambient temperature

At $U_B = 24V$ AC $-15 \dots 40 \text{ }^{\circ}\text{C}$

At $U_B = 24V$ DC $-15 \dots 60 \text{ }^{\circ}\text{C}$

Degree of protection

IP20

Mechanical life

operating cycles 10×10^6

Contact material

AgNi-10

Mounting method

Mounting rail 35mm according to DIN EN 60715 TH35

Connection

Connection terminals

Length of control cable

With conductor cross-section 0.75mm^2 1000 m

Safety contacts 17/18, 27/28, 37/38

Number of safety contacts

3

Auxiliary contacts S25/S26

Number of auxiliary contacts

1

Electrical connection ratings

Operating voltage

AC/DC $24V -10\% \dots +10\%$

(All the electrical connections must either be isolated from the mains supply by a safety transformer according to EN 61558-2-6 with limited output voltage in the event of a fault, or by other equivalent isolation measures.)

Rated insulation voltage U_i

250 V