



SE-304 C EVALUATION UNIT

- To monitor 1 ... 4 safety edge(s)
- 1 safety contact, STOP 0
- 1 Signalling output

Data

Ordering data

| | |
|-------------------------------|--------------------------|
| Product type description | SE-304 C EVALUATION UNIT |
| Article number (order number) | 101165883 |
| EAN (European Article Number) | 4030661293622 |
| eCl@ss number, version 12.0 | 27-37-18-19 |
| eCl@ss number, version 11.0 | 27-37-18-19 |
| eCl@ss number, version 9.0 | 27-37-18-19 |
| ETIM number, version 7.0 | EC001449 |
| ETIM number, version 6.0 | EC001449 |

Approvals - Standards

| | |
|--------------|-----|
| Certificates | TÜV |
|--------------|-----|

General data

| | |
|-----------------|--------------------------------|
| Standards | EN ISO 13849-1 EN ISO 13850 |
| Climatic stress | EN ISO 13856-2 |

| | |
|------------------------|----------------------------|
| Enclosure material | Glass-fibre, thermoplastic |
| Gross weight | 175 g |
| Reaction time, maximum | 17 ms |

General data - Features

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|---|-----|
| Stop-Category | 0 |
| Electronic Fuse | Yes |
| Wire breakage detection | Yes |
| Cross-circuit detection | Yes |
| Start input | Yes |
| Feedback circuit | Yes |
| Automatic reset function | Yes |
| Reset edge detection | Yes |
| Reset after disconnection of supply voltage | Yes |
| Earth connection detection | Yes |
| Integral system diagnostics, status | Yes |
| Number of LEDs | 5 |
| Number of undelayed semiconductor outputs with signaling function | 1 |
| Number of safety contacts | 1 |
| Number of signalling outputs | 1 |

Safety classification

| | |
|---------------------------|--|
| Performance Level, up to | d |
| Category | 3 |
| Control category to EN954 | 3 |
| PFH value | 1.01×10^{-7} /h |
| Note (PFH-value) | up to max. 5,000 switching cycles/year |
| Mission time | 20 Year(s) |

Mechanical data

| | |
|--------------------------|--|
| Mechanical life, minimum | 10,000,000 Operations |
| Mounting | Snaps onto standard DIN rail to EN 60715 |

Mechanical data - Connection technique

| | |
|------------------------|---|
| Termination | Screw terminals M20 x 1.5 |
| Length of cable | 200 m |
| Cable section, maximum | 2 x 1.5 mm ² |
| Note (Cable section) | All indications including the conductor ferrules. |

Mechanical data - Dimensions

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|--------|---------|
| Width | 22.5 mm |
| Height | 100 mm |
| Depth | 121 mm |

Ambient conditions

| | |
|--|---------------------------------|
| Degree of protection of the enclosure | IP40 |
| Degree of protection of the mounting space | IP54 |
| Degree of protection of clips or terminals | IP20 |
| Ambient temperature | +5_+55 |
| Resistance to vibrations | 10 ... 55 Hz, amplitude 0.15 mm |

Ambient conditions - Insulation values

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|---|------|
| Rated impulse withstand voltage U_{imp} | 4 kV |
| Overvoltage category | III |
| Degree of pollution | 2 |

Electrical data

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|--|--|
| Frequency range | 50 Hz |
| Operating voltage | 24 VAC -10 % / +10 % 24 VDC -10 % / +20 % |
| Rated operating voltage | 24 VAC |
| Rated operating voltage | 24 VDC |
| Operating current | 500 mA |
| Rated AC voltage for controls, 50 Hz, minimum | 21.6 VAC |
| Rated control voltage at AC 50 Hz, maximum | 28.8 VAC |
| Rated AC voltage for controls at DC minimum | 21.6 VDC |
| Rated control voltage at DC, maximum | 28.8 VDC |
| Utilisation category AC-15 | 230 VAC |
| Utilisation category AC-15 | 2 A |
| Utilisation category DC-13 | 24 VDC |
| Utilisation category DC-13 | 2 A |
| Electrical power consumption, maximum | 4 W |
| Pull-in delay at RESET | 100 ms ... 2000 ms |

Electrical data - Electromagnetic compatibility (EMC)

| | |
|------------|---------------|
| EMC rating | EMC-Directive |
|------------|---------------|

Status indication

| | |
|----------------------------|--|
| Indicated operating states | Authorised operation fault indication |
|----------------------------|--|

Other data

| | |
|---------------------|--------------|
| Note (applications) | Safety edges |
|---------------------|--------------|

Note

Note (General)

The overall machine safety depends on the professional mounting and installation of the safety monitoring module and the signal transmitter, as well as on the correct and professional electrical connection of the components. If there is any risk whatsoever, the machine may not be restarted.

Wiring example

Note (Wiring diagram)

Both re-initialisation and auto-reset must comply with the requirements of EN 1760-2 (diagram A2, A3). The wiring diagram is shown for the de-energised condition. Monitoring the safety edges SE 40 / SE 70 with a safety monitoring unit SE-304C up to PL d and Category 3. Manual reset function or auto-reset: the manual reset function is triggered by an edge-sensitive signal (edge switching "0-1-0" within 100 ms up to 2 s) (X2/X3). Alternatively, the auto-reset function can be activated by a connection (A3/X2). If less than 4 safety edges are connected, the following diagram must be observed.

Pictures

Product picture (catalogue individual photo)

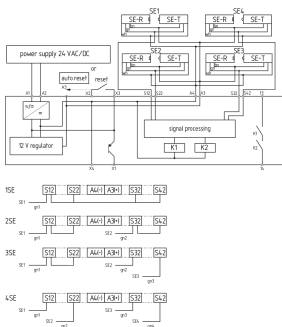


ID: ksec3f02

| 1.7 MB | .jpg | 352.778 x 855.486 mm - 1000 x 2425 px - 72 dpi

| 110.2 kB | .png | 74.083 x 179.564 mm - 210 x 509 px - 72 dpi

Wiring example

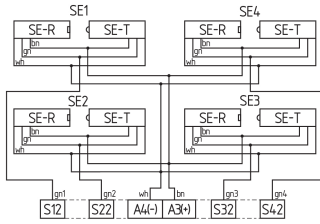


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| 56.6 kB | .cdr |

| 216.1 kB | .jpg | 352.778 x 402.519 mm - 1000 x 1141 px - 72 dpi

Wiring example



ID: kse3-102

| 63.7 kB | .cdr |

| 150.7 kB | .jpg | 352.778 x 236.714 mm - 1000 x 671 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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