

FSR0515024 FG**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

The SAFESERIES Contact Extension uses relays with forcibly guided contacts in accordance with EN 61810-3 Type A. This makes it predestined for signal monitoring in applications for the protection of people and machinery. It ensures safe feedback to the control level. Consisting of 5 different pluggable relays with matching screw sockets in the contact version 2 NO + 2 NC, 3 NO + 1 NC, 4 NO + 2 NC, 3 NO + 3 NC and 5 NO + 1 NC. When the application is designed according to EN/ISO 13849-1, a performance level of PL "e" can be achieved. The basic component is also suitable for safety applications according to IEC/EN 62061 in order to achieve a safety integrity level of SIL3.

- Relay with forcibly guided contacts to EN 61810-3 type A
- cULus listed approval for high acceptance on the North American market
- CQC approval for conformity with Chinese quality standards
- Assembled and 100 % functionally tested KIT consisting of relay and socket with integrated status LED
- Diagnosis coverage of 99 %

General ordering data

| | |
|------------|---|
| Version | SAFESERIES, Relay with positively driven contacts 1 NC and 5 NO contacts forcibly guided (EN 61810-3 type A) AgSnO gold-plated, Rated control voltage: 24 V DC ± 10 %, Continuous current: 6 A, Test button available: No |
| Order No. | 2860030000 |
| Type | FSR0515024 FG |
| GTIN (EAN) | 4064675574743 |
| Qty. | 5 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|-------|-----------------|------------|
| Depth | 24 mm | Depth (inches) | 0.945 inch |
| Height | 50 mm | Height (inches) | 1.969 inch |
| Width | 13 mm | Width (inches) | 0.512 inch |
| Net weight | 24 g | | |

Temperatures

| | | | |
|---------------------|---|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...85 °C |
| Humidity | 5...85 % rel. humidity, no condensation | | |

Rated data UL

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E224238 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|--------------------|------------------|-------------------------|
| Rated control voltage | 24 V DC $\pm 10\%$ | Rated current DC | 21 mA |
| Power rating | 500 mW | Coil resistance | $1152\ \Omega \pm 10\%$ |
| Coil tolerance | 10 % | Status indicator | No |

Load side

| | | | |
|---|--|---|---------------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 6 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 400 V |
| Max. switching voltage, DC | 250 V | Inrush current | 30 A / 20 ms |
| AC switching capacity (resistive), max. | 1500 VA | DC switching capacity (resistive), max. | 144 W @ 24 V |
| Switch-on delay | < 20 ms | Switch-off delay | < 20 ms |
| Contact type | 1 NC and 5 NO contacts forcibly guided (EN 61810-3 type A) (AgSnO gold-plated) | Mechanical service life | 10 x 10 ⁶ switching cycles |
| Min. switching power | 2 mA @ 24 V, 4 mA @ 12 V, 10 mA @ 5 V | | |

General data

| | | | |
|------------------------------------|--------------------------|-----------------|--|
| Operating altitude | ≤ 2000 m | | |
| Test button available | No | | |
| Colour | Transparent | | |
| UL94 flammability rating component | Component | Relay cover | |
| | UL94 flammability rating | V-2 | |
| | Component | Relay baseplate | |
| | UL94 flammability rating | V-0 | |

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Technical data

Insulation coordination

| | | | |
|---|-----------------------|--|--------------------------------|
| Insulation coordination according to | IEC 61810-1 | Rated voltage | 250 V |
| Pollution severity | 2 | Surge voltage category | III |
| Clearance and creepage distances for control side - load side | ≥ 8 mm | Dielectric strength for control side - load side | 4 kV _{eff} / 1 min |
| Type of isolation at input and output | reinforced insulation | Dielectric strength of neighbouring contacts | 2.5 kV _{eff} / 1 min |
| Type of isolation at neighbouring contacts | Basic insulation | Dielectric strength of open contact | 1.5 kV _{eff} / 1 min. |
| Impulse withstand voltage at input and output | 10 kV (1.2/50 µs) | Impulse withstand voltage at neighbouring contacts | 5 kV (1.2/50 µs) |
| Protection degree | IP50 | | |

Further details of approvals / standards

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E224238 |
|-------------------------|---------|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001437 | ETIM 7.0 | EC001437 |
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ECLASS 9.0 | 27-37-16-01 | ECLASS 9.1 | 27-37-16-01 |
| ECLASS 10.0 | 27-37-16-01 | ECLASS 11.0 | 27-37-16-01 |
| ECLASS 12.0 | 27-37-16-01 | ECLASS 13.0 | 27-37-16-01 |
| ECLASS 14.0 | 27-37-16-01 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 19f8b897-8687-40cb-b680-a1c1db5fdebc |
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7cl |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E224238 |

Downloads

| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

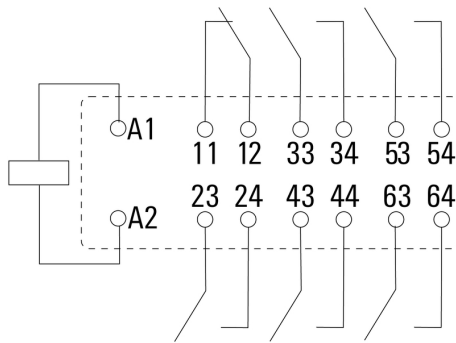
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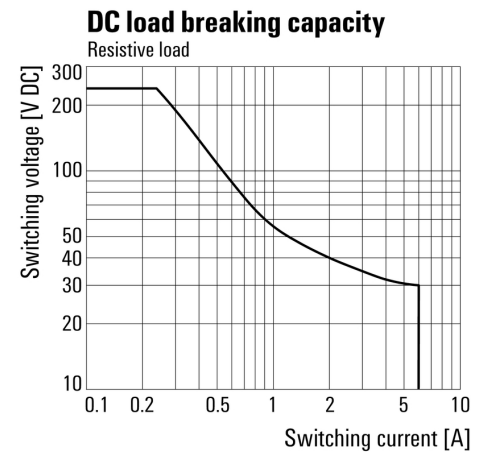
Drawings

Wiring diagram

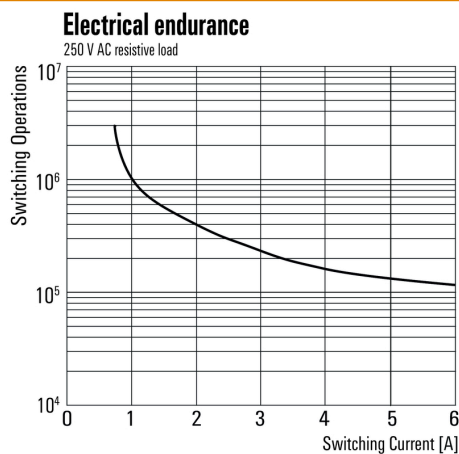


View of Pins from below

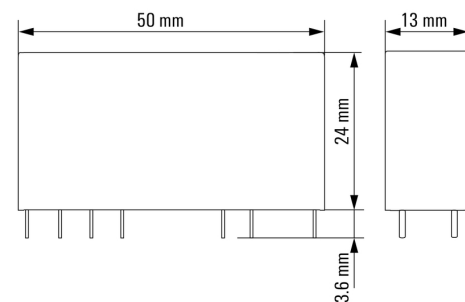
Graph



Graph



Dimensional drawing



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