

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 $\pm 10\%$ , Continuous current: 6 A, Test button available: No |
| Order No.  | <a href="#">2860030000</a>                                                                                                                                                                                                     |
| Type       | FSR0515024 FG                                                                                                                                                                                                                  |
| GTIN (EAN) | 4064675574743                                                                                                                                                                                                                  |
| Qty.       | 5 pc(s).                                                                                                                                                                                                                       |

## FSR0515024 FG

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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  | $1152 \Omega \pm 10\%$ |
| 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                 | $10 \times 10^6$ switching cycles |
| Min. switching power                    | 2 mA @ 24 V, 4 mA @ 12 V, 10 mA @ 5 V                                          |                                         |                                   |

## General data

|                                    |                          |                 |  |
|------------------------------------|--------------------------|-----------------|--|
| Operating altitude                 | $\leq 2000$ 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             |  |

## FSR0515024 FG

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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 <sub>eff</sub> / 1 min    |
| Type of isolation at input and output                         | reinforced insulation | Dielectric strength of neighbouring contacts       | 2.5 kV <sub>eff</sub> / 1 min  |
| Type of isolation at neighbouring contacts                    | Basic insulation      | Dielectric strength of open contact                | 1.5 kV <sub>eff</sub> / 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    |
| ETIM 10.0   | 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 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

## Environmental Product Compliance

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

## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                 |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                              |
| Certificate No. (cURus) | E224238                                                                                                                                                                                                                                                                                                                                                 |

## Downloads

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| Engineering Data | <a href="#">CAD data – STEP</a>                                  |
| Software         | <a href="#">Library and function block – SISTEMA library 2.0</a> |
| Catalogues       | <a href="#">Catalogues in PDF-format</a>                         |

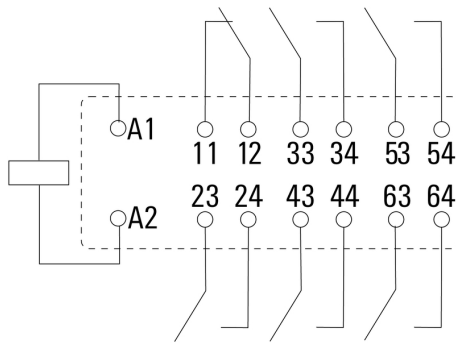
## FSR0515024 FG

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

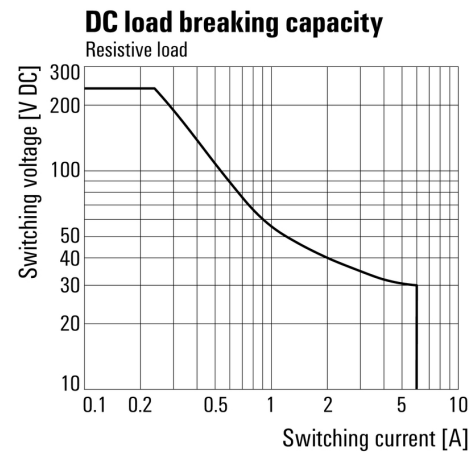
## Drawings

### Wiring diagram

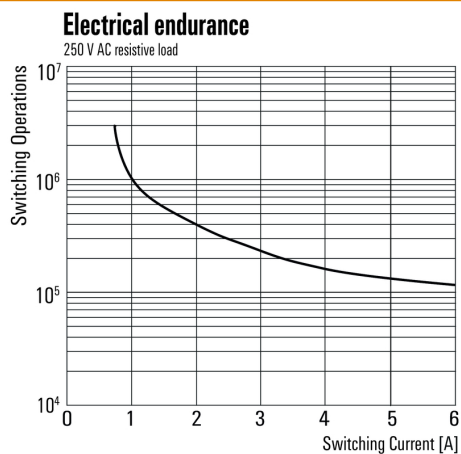


View of Pins from below

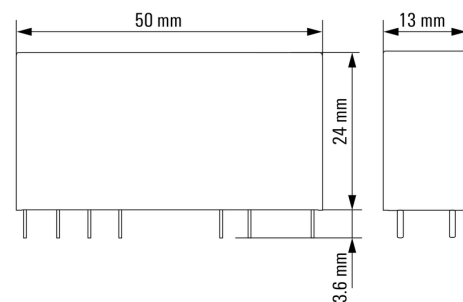
### Graph



### Graph



### Dimensional drawing



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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Type codes**