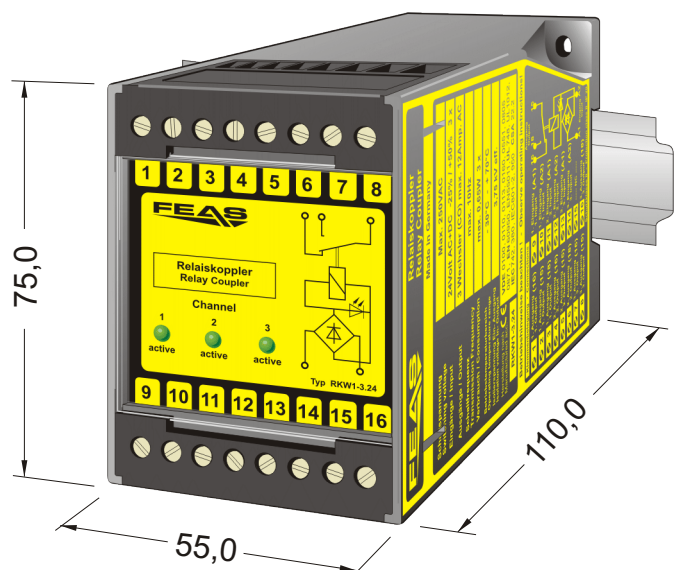


# 3-channel relay coupler change over contacts Type RKW1-3.24



- ☐ Output separated
- ☐ Input suitable for AC and DC voltage
- ☐ Operating status shown by LED
- ☐ For high switching power  
contacts made of precious metal
- ☐ Easy installation on DIN-rails
- ☐ Conform with EMC and guidelines for low voltage
- ☐ Safety acc. to VDE, EN, UL, CSA

| Type                     | RKW1-3.24                   |
|--------------------------|-----------------------------|
| Number of channels       | 3                           |
| Nominal input voltage    | 24VAC(VDC)                  |
| Switching frequency      | max. 10Hz                   |
| Switching voltage output | max. 250VAC<br>max. 48VDC   |
| Switching current output | max. 12A AC<br>max. 2,4A DC |
| Dimensions (W x H x D)   | 55x75x110                   |
| Wheight                  | approx. 0,28kg              |
| Order-No.                | 59135                       |

## Technical Data

### Input data

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Nominal input voltage              | see table below                                |
| Range of input voltage             | -25% to 50% $U_{\text{Nominal}}$               |
| Switching barrier                  | > 18V                                          |
| Impuls width                       | min. 20ms                                      |
| Input current each channel         | approx. 27mA                                   |
| Consumption each channel           | < 0,65W                                        |
| Relapsecurent of the relay at 20°C | approx. 7mA                                    |
| Switching time at nominal voltage  | operate time 7ms typ.<br>release time 3ms typ. |

### Output data

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Switching voltage            | see table below                                              |
| Switching current            | see table below                                              |
| Switching power              | max. 3000VA, max. 120W                                       |
| Minimum switching power      | 10W                                                          |
| Life expectancy (operations) | electrical - $7 \times 10^4$<br>mechanical - $3 \times 10^7$ |

### Operating data

|                             |                                                           |
|-----------------------------|-----------------------------------------------------------|
| Duty circle                 | 100%                                                      |
| Operating temperature range | -30°C to +70°C                                            |
| Derating                    | see drawing below                                         |
| Storage temperature range   | -40°C...+105°C                                            |
| Cooling                     | self cooling<br>recommended respective distance 10mm each |

### Safety devices

|                     |            |
|---------------------|------------|
| Fuse for input      | -          |
| Fuse for output     | -          |
| Overload protection | -          |
| MTBF                | >380.000 h |

### Safety data

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| High voltage resistance    | Input / Output 3,75 kVAC acc. to VDE 0806                                           |
| Protection class           | Class 2 (EN 60950)                                                                  |
| Extra low safety potential | -                                                                                   |
| Ambient humidity           | 95% relative humidity, yearly average dewing<br>allowed for use in tropical ambient |
| Protective class enclosure | IP 65                                                                               |
| Protective class terminals | IP 20 (VGB4)                                                                        |
| Vibration proof            | >30g at 33Hz in X,Y and Z,<br>acc. to IEC 60068-2-27                                |

### Applied construction regulations

|                  |                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| according to VDE | VDE 0100, 0110, 0113, 0551, 0160/W2, 0806                                                                                                               |
| IEC              | IEC 60939-1, IEC60939-2, IEC60068-2-3<br>IEC 60068-2-11-52, IEC 60529, IEC 380                                                                          |
| EN               | EN45501, EN50021, EN61000-6-1-2-3-4<br>EN55011, EN50204, EN61558-2-17, EN50178<br>EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11<br>EN60068-2-1-2-3-6-27-30 |
| CSA / UL         | CSA-C 22.2 / UL1283, UL94V1                                                                                                                             |

### Mechanics

|          |                                                           |
|----------|-----------------------------------------------------------|
| Mounting | On rails acc. to DIN 46277 or<br>wallmounting with screws |
|----------|-----------------------------------------------------------|

