

DIN-Relay coupler DRK-2/L

For activation of lights



Switching on lights can lead to very high inrush current peaks.

A closing contact can bounce 3 to 7 times until it has closed completely. This creates a light arc which can melt the contact surface. Micro-welding can take place when the contact cools down (contact sticks).

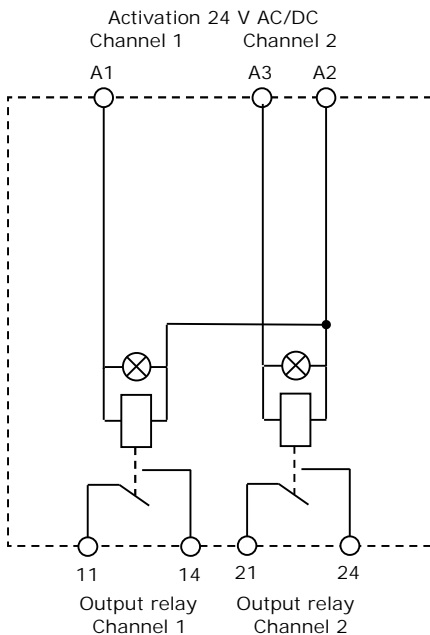
To prevent sticking of the contact, relays with a preceding tungsten contact are used.

Inrush current peaks for filament lamps of 165 A / max. 20 ms, or for fluorescent lamps and LED of 800 A / max. 200 μ s can be switched with these.

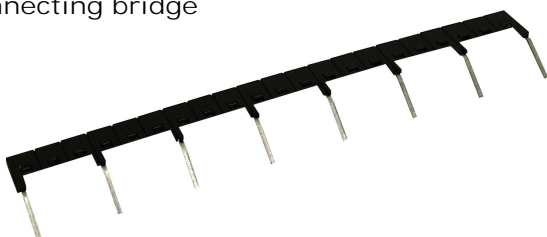
An 8-pin connecting bridge is available for wiring the A2 feed faster.

- 2 independent circuits with 12 A
Each separately controllable switching circuit is capable to switch a capacity of 12 A / 250 V AC and inrush current peaks of 165 A / 20 ms or 800 A / 200 μ s.
- DIN 45 mm housing
The standardised housing enables the DIN-relay coupler to be installed by means of a 45 mm cut-out behind the covering; it only requires a width of 17.5 mm for this. The switching status indicators (LED) are clearly visible, with the connections located in a protected position behind the cover panel.

Block diagram



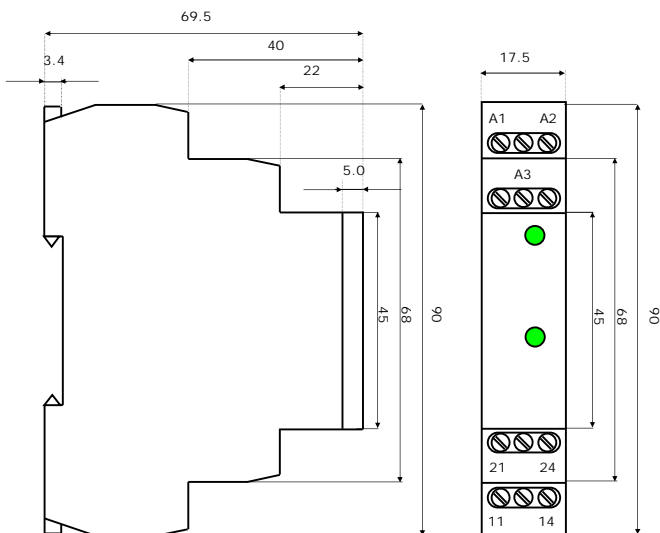
Connecting bridge



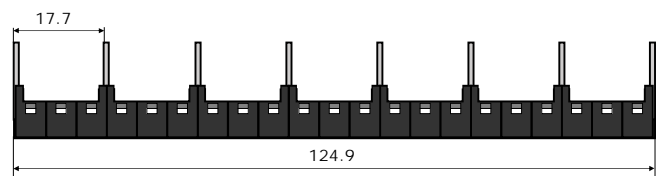
Technical data

| | |
|--------------------------------------|--|
| Input side | |
| Rated voltage Un A1, A3 - A2 | 24 V AC/DC |
| Power consumption | 480 mW |
| Tolerance | -15%; +10% |
| Output side | |
| Switching voltage | 250 V AC / 24 V DC |
| Switching current / contact material | 12 A / AC1 / preceding tungsten contact and AgSnO ₂ |
| Max. peak current | Filament lamps: 165 A / <20 ms, fluorescent lamps and LED: 800 A / <200 μs |
| Switching capacity | 3000 VA / AC1, 288 mW |
| General data | |
| Mechanical life | 5 x 10 ⁶ |
| Ambient temperature | -20°C ... +55°C |
| Storage temperature | -30°C ... +70°C |
| Test voltage coil / contact | 2.5 kV |
| Mounting position | any |
| Fixing DIN rail | EN 50022-35 |
| Protection class of front | IP 40 |
| Voltage limitation class | III |
| Degree of contamination | 2 |
| Connection cross section | 2.5 mm ² |
| Weight | 78 g |
| Standards | EN 61810-1, EN 618-10-1 + 2 |

Dimensional drawing



Connecting bridge



| Device | | Order no. |
|-------------------|---|-----------|
| DIN-Relay coupler | 2 working contact, preceding tungsten contact | DRK-2/L |
| Connecting bridge | 8-pin | AK-17-8 |