



NEW
product

- Asymmetric flasher with controlled times T1 and T2
- 2 time functions: li, lp
- 7 time ranges: 1 s; 10 s; 1 min.; 10 min.; 1 h; 10 h; 100 h
- Wide input voltage range: 12...240 V AC/DC
- 1 changeover contact: 1 C/O
- Rated load: 8 A / 250 V AC at cat. AC1
- Installation design: width 17,5 mm
- Recognitions, certifications, directives: **CE**

Type of relay

TR-EI1P-UNI

Output circuit

| | | | |
|------------------------------|-----|--------------------|-----------------|
| Number and type of contacts | | 1 C/O - changeover | |
| Rated load | AC1 | 8 A / 250 V AC | |
| Max. breaking capacity | AC1 | 2 000 VA | |
| Max. operating frequency | | 3 600 cycles/hour | PN-EN 60947-5-1 |
| • at 100 VA resistive load | | 360 cycles/hour | |
| • at 1 000 VA resistive load | | | |

Input circuit

| | | |
|-----------------------------------|--|--|
| Supply voltage U | | 12...240 V AC/DC, AC: 50/60 Hz; terminals A1(+)-A2 |
| Drop-out voltage | | AC: $\geq 0,3 U_n$ |
| Operating range of supply voltage | | $0,9 < U_n < 1,1$ |
| Rated power consumption | | 4,0 VA / 1,5 W |
| Rated frequency | | AC: 48...63 Hz |
| Duty cycle | | 100% |
| Residual ripple to DC | | 10% |
| Control contact | <ul style="list-style-type: none"> • input • loadable • max. line length • trigger level (sensitivity) | terminals A1-B1 yes 10 m automatic adaption to supply voltage |

Insulation

| | | |
|-----------------------------|--|--------------------------------|
| Rated surge voltage | | 4 000 V AC |
| Overtoltage category | | III PN-EN 60664-1 |
| Insulation pollution degree | | 2, if built-in 3 PN-EN 60664-1 |

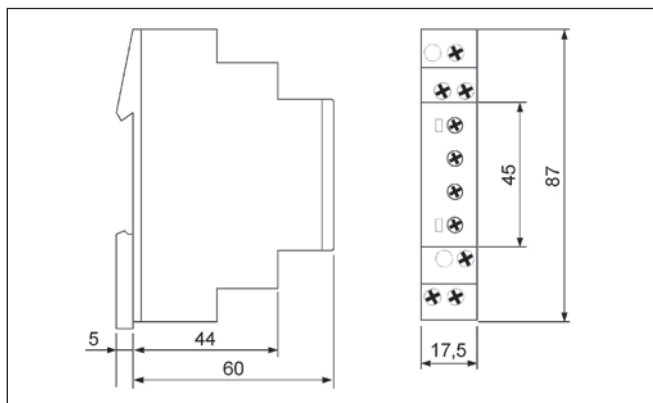
General data

| | | |
|-----------------------------|---|--|
| Electrical life | • resistive AC1 | $\geq 2 \times 10^5$ 1 000 VA |
| Mechanical life (cycles) | | $\geq 2 \times 10^7$ |
| Dimensions (L x W x H) | | 87 x 17,5 x 60 mm |
| Weight | | 63 g |
| Ambient temperature | <ul style="list-style-type: none"> • storage, transport • operating | -25...+70 °C -25...+55 °C PN-EN 60068-1 |
| Housing protection category | | IP40 |
| Relative humidity | | 15...85% PN-EN 60721-3-3 class 3K3 |
| Shock resistance | | 15 g 11 ms PN-EN 60068-2-27 |
| Vibration resistance | | 0,35 mm DA 10...55 Hz PN-EN 60068-2-6 |

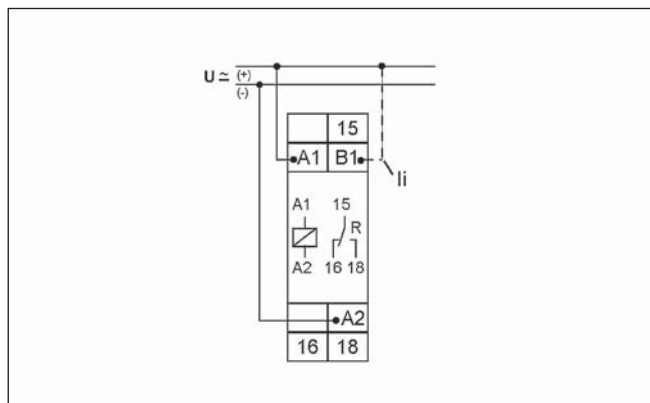
Time module data

| | | |
|------------------------------------|--|---|
| Functions | | li - A1-B1 terminals bridged lp - terminals not bridged |
| Time intervals (timing adjustment) | | 1 s (50 ms...1 s); 10 s (0,5...10 s); 1 min. (3 s...1 min.); 10 min. (30 s...10 min.); 1 h (3 min. ...1 h); 10 h (30 min. ...10 h); 100 h (5...100 h) |
| Base accuracy | | $\pm 1\%$ (calculate from final range value) |
| Setting accuracy | | $\pm 5\%$ (calculate from final range value) |
| Repeatability | | $\pm 0,5\%$ or ± 5 ms |
| Temperature influence | | $\pm 0,01\%$ / °C |
| Recovery time | | 100 ms |
| LED indicator | | green LED U/T ON - indication of supply voltage green LED U/T slow flashing - indication of time period T1 green LED U/T fast flashing - indication of time period T2 yellow LED R ON/OFF - indication of output relay |

Dimensions



Connections diagram



Mounting, mechanical design

Relays **TR-EI1P-UNI** are designed for direct mounting on 35 mm DIN rail mount, EN 50022. Mounting position: any. Self-extinguishing plastic housing, IP 40. Shockproof terminal connection according to VBG 4 (PZ1 required), IP 20. Maximum screw torque: 1,0 Nm. Terminal capacity: 1 x 0,5 do 2,5 mm² with/without multicore cable end, 1 x 4 mm² without multicore cable end, 2 x 0,5 do 1,5 mm² with/without multicore cable end, 2 x 2,5 mm² flexible without multicore cable end.

Functions

li - asymmetric flasher pulse first



When the supply voltage **U** is applied, the output relay **R** switches into on-position (yellow LED illuminated) and the set interval **T1** begins (green LED **U/T** flashes slowly). After the interval **T1** has expired, the output relay switches into off-position (yellow LED not illuminated) and the set interval **T2** begins (green LED **U/T** flashes fast). After the interval **T2** has expired, the output relay switches into on-position (yellow LED illuminated). The output relay is triggered at the ratio of **T1:T2** until the supply voltage is interrupted.

lp - asymmetric flasher pause first



When the supply voltage **U** is applied, the set interval **T1** begins (green LED **U/T** flashes slowly). After the interval **T1** has expired, the output relay **R** switches into on-position (yellow LED illuminated) and the set interval **T2** begins (green LED **U/T** flashes fast). After the interval **T2** has expired, the output relay switches into off-position (yellow LED not illuminated). The output relay is triggered at the ratio of **T1:T2** until the supply voltage is interrupted.

li - A1-B1 terminals bridged



lp - terminals not bridged



U - supply voltage; **R** - output relay; **T1-T2** - timing adjustment