## TR-EI1P-UNI

time relays


Output circuit - contact data

| Number and type of contacts |  |
| :--- | :--- |
| Contact material | AC1 |
| Rated load | AC1 |
| Max. breaking capacity |  |

Max. operating frequency

- at resistive load 100 VA
- at resistive load 1000 VA

Input circuit

| Rated voltage AC: $50 / 60 \mathrm{~Hz} \mathrm{AC/DC}$ | 12.. 240 V terminals (+)A1 - (-)A2 |
| :---: | :---: |
| Must release voltage | AC: $\geq 0,3 \mathrm{Un}_{n}$ |
| Operating range of supply voltage | 0,9...1,1 Un |
| Rated power consumption AC | 4,0 VA |
| DC | 1,5 W |
| Range of supply frequency AC | $48 . .63 \mathrm{~Hz}$ |
| Duty cycle | 100\% |
| Residual ripple to DC | 10\% |
| Insulation according to PN-EN 60664-1 |  |
| Insulation rated voltage | 250 V AC |
| Rated surge voltage | 4000 V 1,2/50 s |
| Overvoltage category | III |
| Insulation pollution degree | 2 if built-in: 3 |
| Dielectric strength • contact clearance | 1000 VAC type of clearance: micro-disconnection |
| General data |  |
| Electrical life •resistive AC1 | $>2 \times 10^{5} \quad 1000 \mathrm{VA}$ |
| Mechanical life (cycles) | $>2 \times 10^{7}$ |
| Dimensions (L x W x H) | $87 \times 17,5 \times 65 \mathrm{~mm}$ |
| Weight | 63 g |
| $\begin{array}{ll}\text { Ambient temperature } & \text { • storage } \\ & \text { - operating }\end{array}$ | $\begin{aligned} & -25 \ldots+70^{\circ} \mathrm{C} \\ & -25 \ldots+55^{\circ} \mathrm{C} \end{aligned}$ |
| Cover protection category | IP 20 PN-EN 60529 |
| Relative humidity | 15...85\% |
| Shock resistance | 15 g 11 ms |
| Vibration resistance | 0,35 mm DA $10 \ldots . .55 \mathrm{~Hz}$ |
| Time module data |  |
| Functions (1) | $\mathrm{li}, \mathrm{lp}$ |
| Time ranges | $1 \mathrm{~s} ; 10 \mathrm{~s} ; 1$ min.; 10 min.; $1 \mathrm{~h} ; 10 \mathrm{~h} ; 100 \mathrm{~h}$ |
| Timing adjustment | smooth - (0,05...1) x time range |
| Base accuracy | $\pm 1 \%$ (calculated from the final range values) |
| Setting accuracy | $\pm 5 \%$ (calculated from the final range values) |
| Repeatability | $\pm 0,5 \%$ or $\pm 5 \mathrm{~ms}$ |
| Temperature influence | $\pm 0,01 \% /{ }^{\circ} \mathrm{C}$ |
| Recovery time | 100 ms |
| LED indicator | green LED U ON - indication of supply voltage $U$ green LED U slow flashing - measurement of T1 time green LED $U$ fast flashing - measurement of T2 time yellow LED R ON/OFF - output relay status |

[^0]- Time relays with independently controled times T1 and T2, time function Ii, Ip (Cyclical operation in two independent intervals T 1 and T 2 ) $\mathbf{0}, 7$ time ranges
- AC/DC input voltages
- Cover - installation module, width $17,5 \mathrm{~mm}$
- Direct mounting on 35 mm rail mount acc. to PN-EN 60715
- Application: in low-voltage systems
- Recognitions, certifications, directives: $(\in \mathbb{E B}[$

1 CO
AgNi
8 A / 250 V AC
2000 VA (8 A / 250 V AC)
3600 cycles/hour
360 cycles/hour

## TR-EI1P-UNI

time relays

## Time functions

Ip - Cyclical operation pause first. Independent settings of T1 and T2 intervals.
(1) Start by function Ip - terminals A1-B1 are not connected / bridged.

$\begin{array}{cc}\circ & 0 \\ \text { A1 } & \end{array}$
A1 B1

When the supply voltage $U$ is applied, the set interval T1 begins (green LED 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 flashes fast). After the interval T2 has expired, the output relay switches into off-position (yellow LED not illumninated). The output relay is triggered at the ratio of $\mathrm{T} 1: \mathrm{T} 2$ until the supply voltage is interrupted.

Ii - Cyclical operation pulse first. Independent settings of T1 and T2 intervals.
(1) Start by function li - terminals A1-B1 are connected / bridged.


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 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 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.
$\mathbf{U}$ - supply voltage; $\mathbf{R}$ - output state of the relay; $\mathbf{T 1}, \mathbf{T} \mathbf{2}$ - measured times; $\mathbf{t}$ - time axis

## Dimensions



## Front panel description



## Connection diagram



1 CO

## Mounting

Relays TR-EIIP-UNI are designed for direct mounting on 35 mm rail mount acc. to PN-EN 60715. Operational position - any. Connections: max. cross section of the cables: $1 \times 2,5 \mathrm{~mm}^{2} / 2 \times 1,5 \mathrm{~mm}^{2}(1 \times 14 / 2 \times 16$ AWG), length of the cable deinsulation: $6,5 \mathrm{~mm}$, max. tightening moment for the terminal: $1,0 \mathrm{Nm}$. Shockproof terminal connection according to VBG 4 (PZ1 required).
(1) Start by function Ip - terminals A1-B1 are not connected / bridged; start by function li - terminals A1-B1 are connected / bridged - see „Time functions", page 2.

## Ordering codes



Example of ordering codes:
TR-EITP-UNI time relay TR-EI1P-UNI, single-function (relay perform function li +lp ), cover - installation module, width $17,5 \mathrm{~mm}$, one changeover contact, rated input voltage $12 \ldots 240 \mathrm{~V}$ AC/DC AC: $50 / 60 \mathrm{~Hz}$


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[^0]:    1 Start by function Ip - terminals A1-B1 are not connected / bridged; start by function li - terminals A1-B1 are connected / bridged - see „Time functions", page 2

