

Electronic Miniature On-Delay Timer TY4

IMO

Miniature on-delay, plug-in timer.

A single product with a range of settings between 0.1 sec and 100 hours.

- Four-pole changeover contacts rated at 6A @ 240VAC
- AC and DC supply versions
- LED indication for Time range, counting time and power on
- Pin-out compatible with industry standard, 4-pole plug-in relays
- Sockets available for Din Rail and Printed-Circuit Board



CE

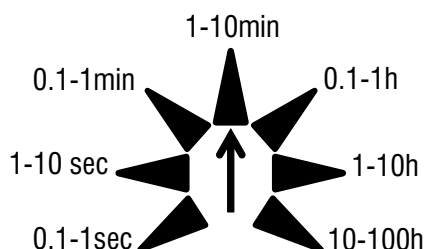
(Base sold separately SRN4-S)

Options and ordering codes

| TY4 | 12VDC |
|--------|----------------|
| 12VDC | Supply voltage |
| 24VDC | |
| 24VAC | |
| 115VAC | |
| 230VAC | |

Time range

Switch on the bottom of the product



Input Circuit

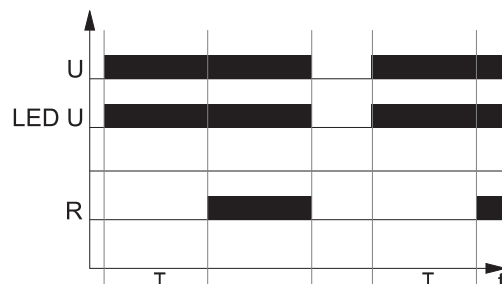
| | | |
|-----------------------------------|---|------------|
| Rated voltage | 50/60Hz AC | 24 to 230V |
| | DC | 12 to 24V |
| Must release voltage | AC: $\geq 0,2 U_n$ DC: $\geq 0,1 U_n$ | |
| Operating range of supply voltage | 0.8 to 1.1 U_n | |
| Rated power consumption | AC | 2.2VA |
| | DC | 1.2W |
| Range of supply frequency | 48 to 63Hz | |

Output Circuits - Contact Data

| | | |
|-----------------------------|-------------------|-------------------|
| Number and type of contacts | | 4 CO |
| Contact material | | AgNi |
| Max. switching voltage | | 250V AC / 250V DC |
| Rated load | | AC1 6A / 230V AC |
| Max. inrush current | | 12A |
| Rated current | | 6A |
| Max. breaking capacity | | AC1 1500 VA |
| Min. breaking capacity | | 0,3 W 5V, 5mA |
| Contact resistance | | $\leq 100m\Omega$ |
| Max. operating frequency | at rated load AC1 | 1200 cycles/hour |
| | no load | 18000 cycles/hour |

Time Module data

| | |
|-----------------------|---|
| Funtion | ON Delay |
| | Applying the supply voltage U, the set time T begins - Off delay of the relay output relay R. After the interval T has lapsed, the output relay R switches on and remains on until suply voltage U is interrupted |
| Time ranges | 1 s; 10 s; 1 min.; 10 min.; 1 h; 10 h; 100 h |
| Timing adjustments | Range - with the range-adjusting knob / switch; Within the range - with the time-adjusting knob / potentiometer |
| Setting accuracy | $\pm 5\%$ (calculated from the final range values) |
| Repeatability | $\pm 1\%$ |
| Temperature influence | $\pm 0,01\%$ / °C |
| Recovery time | 100 ms |
| LED Indicator | Green LED - indication of supply voltage U Yellow LED - indication of time period T and the status of outputs after the time T has been measured |



Electronic Miniature On-Delay Timer TY4 continued



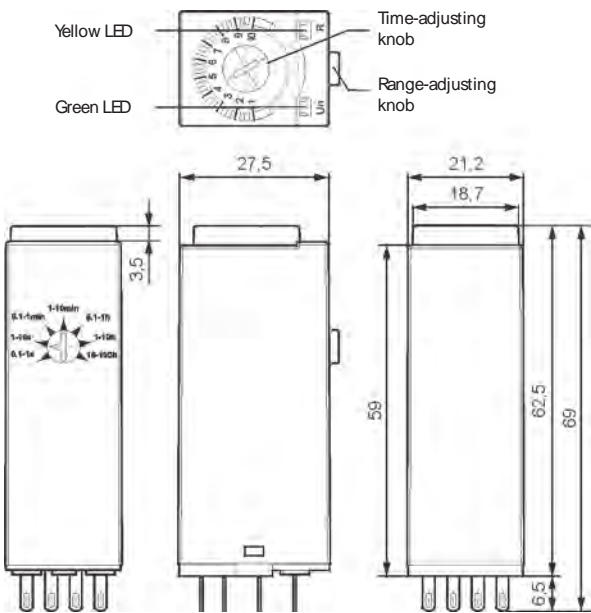
General Data

| | | |
|---|-----------|-----------------------------------|
| Operating / release time (typical values) | | 10ms / 8ms |
| Electrical Life | AC1 | > 10 ⁵ @ 6 A, 250 V AC |
| Mechanical life (cycles) | | > 2 x 10 ⁷ |
| Dimensions (L x W x H) | | 27,5 x 21,2 x 62,5 mm |
| Weight | | 49g |
| Ambient Temperature | Storage | -20...+85 °C |
| | Operating | -20...+55°C |
| Cover protection category | | IP20 (with socket) |
| Shock resistance | (NO/NC) | 10g / 5g |
| Vibration resistance | | 5g 10...150Hz |

Insulation

| | | |
|--------------------------|-------------------|--------------------------------------|
| Insulation rated volatge | | 250V AC |
| Dielectric strength | input - outputs | 2500V AC (type of insulation: basic) |
| | contact clearance | 2500V AC (type of insulation: basic) |
| | pole - pole | 2000V AC (type of insulation: basic) |
| Input - output distance | clearance | ≥ 1,6mm |
| | creepage | ≥ 3,2mm |

Dimensions



Wiring Diagram

