Timers

24 .. 300 V AC/DC 24 V AC/DC or $180 . .265 \mathrm{~V}$ AC (T1-100S, T1-30S)

Time range :
$(\mathrm{T} 1-\mathrm{M} 5$,
T1-FLASH, T1-K)

| 1 s | $: 1$ second | 1 h | $: 1$ hour |
| :--- | :--- | :--- | :--- |
| 10 s | $: 10$ seconds | 10 h | $: 10$ hours |
| 100 s | $: 100$ seconds | $100 \mathrm{~h}: 100$ hours |  |
| 1 m | $: 1$ minute | 1 d | $: 1$ day |
| 10 m | $: 10$ minutes | 10 d | $: 10$ days |

(T1-M4)

$t_{\text {on }}(4,5,6), t_{\text {off }}(1,2,3)$
mode $(7,8)$ 001: 30 seconds $\quad 01:$ off delay 010: 100 seconds $\quad 10:$ on flashe $100: 60$ minutes $\quad 11$ : off flasher 101: 10 hours 110: 100 hour
$0.1-0.2-0.3-0.4-0.5-0.6-0.7-0.8$ 0.9-1 (T1-M5, T1-FLASH)
t multiplier value : $\quad 0.1-0.2-0.3-0.4-0.5-0.6-0.7-0.8$
(T1-K)
$\mathrm{t}, \mathrm{t}_{\mathrm{on}}, \mathrm{t}_{\text {off }}$ timer :
time range
0.9-1
(time range) $\times$ (multiplier value)
1 .. 60 seconds (T1-60S, T1-60S2)
1 .. 100 seconds (T1-100S)
1 .. 30 seconds (T1-30S)

| Output contact | $1 \mathrm{C} / \mathrm{O}$ |
| :--- | :--- |
| Maximum switching current | 10 A |
| Maximum switching voltage | 250 V AC |
| Maximum switching power | 1250 VA |
| Operating temperature | $-20^{\circ} \mathrm{C} . .60^{\circ} \mathrm{C}$ |
| Storage temperature | $-40^{\circ} \mathrm{C} . .75^{\circ} \mathrm{C}$ |
| Protection class | IP 20 |
| Connection | Rail mounted |


$24.300 \mathrm{~V} \mathrm{ac} / \mathrm{dc}$

24.300V ac/dc

$24.300 \mathrm{~V} \mathrm{ac} / \mathrm{dc}$


T1-100S, T1-30S

| control <br> type | mode | time <br> rangle | order no |  |
| :--- | :---: | :---: | :---: | :---: |
| T1-60S |  | ND | $1 . .60 \mathrm{sec}$ | 270350 |
| T1-FLASH |  | Foff | $0.1 \mathrm{sec} . .10 \mathrm{days}$ | 270351 |
| T1-60S2 |  | ND | $1 . .60 \mathrm{sec}$ | 270352 |
| T1-M5 |  | ND,FD,NFD,Fon,Foff | $0.1 \mathrm{sec} . .10$ days | 270353 |
| T1-K | $\checkmark$ | a,b,c,d,e,f,g,h,i,k | $0.1 \mathrm{sec} . .10$ days | 270354 |
| T1-M4 |  | ND,FD,Fon,Foff | $1 \mathrm{sec} . .10$ days | 270355 |
| T1-100S |  | ND | $1 . .100 \mathrm{sec}$ | 270359 |
| T1-30S |  | ND | $1 . .30 \mathrm{sec}$ | 270363 |


| DPERATION MODE | FUNETION ILIUSTRATION | FUNGTION STATEMENT |
| :---: | :---: | :---: |
| on delay (mode: a, ND) |  | The output relay is initially de-energized and energized after an adjustable time delay, $\mathrm{t}_{\text {ofr }}$ |
| off delay (mode: b, FD) |  | The output relay is initially energized and de-energized after an adjustable time delay, $\mathrm{t}_{\text {on }}$. |
| on-off delay (mode: NFD) |  | The output relays is initially de-energized and energized after an adjustable time delay, $\mathrm{t}_{\text {off }}$, and stays energized for an adjustable period, $\mathrm{t}_{\mathrm{on}}$, and then de-energized. |
| on flasher (mode: Fon) | On/t: 」 <br> $\mathrm{R}: \sqrt{\leftarrow} \mathrm{T}_{\text {ON }} \rightarrow \mathrm{T}_{\text {OFF }} \rightarrow \stackrel{\mathrm{T}_{\text {ON }} \rightarrow}{ } \leftarrow \mathrm{T}_{\text {OFF }} \rightarrow$ <br>  <br>  | The output relays is initially energized and deenergized after an adjustable time delay, $\mathrm{t}_{\mathrm{on}}$, and stays de-energized for an adjustable period, $\mathrm{t}_{\text {off }}$ and then energized. This loop is repeated until the device is powered off. "On/t" led flashes at Fon and Foff mode for "T1-M4" product. |
| off flasher (mode: g, Foff) |  | The output relay is initially de-energized and energized after an adjustable time delay, $\mathrm{t}_{\text {off }}$, and stays energized for an adjustable period, $\mathrm{t}_{\mathrm{on}}$, and then de-energized. This loop is repeated until the device is powered off. "On/t" led flashes at Fon and Foff mode for "T1-M4" product. |
| on delay with control input (mode: c) |  | The output relay is initially de-energized. A contact closure on T contact triggers an adjustable time delay, t , which energizes the output relay when expired. The output relay stays energized as long as the T contact is active. Delay time, t , is cleared when the contact on T contact opens. |
| off delay with control input (mode: d) |  | The output relay is initially de-energized and energized when a contact closure on T contact is detected. A contact release on T contact triggers an adjustable time delay, t , which de-energizes the output relay when expired. Reclosure of the contact on T contact before the time delay is expired restarts time delay, t , and keeps the output relay energized. |
| rising edge triggered off delay (mode: e) |  | The output relay is initially de-energized. A contact closure on T contact both energizes the output relay and triggers an adjustable time delay, t , which de-energizes the output relay when expired. During the time delay, T contact is insensitive to state changes and becomes sensitive when time delay, t , expired. |
| falling edge triggered off delay (mode: f) |  | The output relay is initially de-energized. A state change of the contact on T contact from closed to open both energizes the output relay and triggers an adjustable time delay, t , which de-energizes the output relay when expired. During the time delay, T contact is insensitive to state changes and becomes sensitive when time delay, t , expired. |
| on and off delay with control input (mode: h) |  | The output relay is initially de-energized. A contact closure on T contact triggers an adjustable time delay, t , which energizes the output relay when expired. Similarly contact release of T contact triggers the time delay, t , which de-energizes the output relay when expired. Delay time, t , is cleared when the contact state of T contact changes. |
| adjustable pulse output with control input (mode: i) |  | The output relay is initially de-energized. A state change on $T$ contact both energizes the output relay and triggers an adjustable time delay, t , which de-energizes the output relay when expired. During the time delay, T contact is insensitive to state changes and becomes sensitive when time delay, t , expired. |
| on delay with memory (mode: k) |  | The output relay is initially de-energized. If T contact is open, adjustable time delay, t , counts down and output relay energizes when $t$ is expired. Any contact closure on T contact pauses the count down process, and the process continues when the contact release on T contact occurs. A contact release is needed to restart the cycle, after the output relay is energized. |

Warning : If adjustments are accomplished after Timer is turned on, operator should power down the device, wait at least 0.3 seconds and power up the device.

