## DIN W48×H48mm 8 Pin Plug Timer

## $\square$ Features

- Wide range of the time selection ( 0.01 sec to 9999.9 hour)
- Selectable voltage input (PNP) method or
no-voltage input (NPN) method
- Dot for Decimal Point / Hour. Min. Sec. by RESET key
- Wide range of power supply
: 100-240VAC $50 / 60 \mathrm{~Hz}, 24 \mathrm{VAC} 50 / 60 \mathrm{~Hz}$, 24-48VDC universal
- Memory protection for 10 years (using non-volatile semiconductor)
- Built-in Microprocessor


SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

Please read "Safety Considerations"
in the instruction manual before using.

## Ordering Information


※8-pin socket (PG-08, PS-08(N)) is sold separately.

## Specifications



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Controllers
(K)
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Controllers
(M)

Counters
(N)
Tim
(O)
Digita

Panel Meters
(P)
Indicators

Indicators
(Q)

Converters
(R)

Display Units
(S)
Sens
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Controllers
(T)
Switching

Switching
Mode Power
Supplies
※1: The weight includes packaging. The weight in parenthesis is for unit only.
※Environment resistance is rated at no freezing or condensation.
$\square$ Connections


- FS4E-1P2

- FS5E-I4



## $\square$ Input Connections

## © Voltage input (PNP)

- Solid-state input (standard sensor: PNP output type sensor)

- Contact input

- Contact input



## 8 Pin Plug Timer

Dimensions

(0) Bracket

(unit: mm)
SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE
© Panel cut-out


## Timer

(N)
Timer
$\qquad$
DIP Switch Setting


- Input logic (INHIBIT, RESET input)

| SW1 |  | Function |
| :---: | :---: | :---: |
| 1 | $\begin{gathered} \mathrm{ON} \\ \mathrm{OFF} \\ \square \end{gathered}$ | NPN <br> (no-voltage input) |
|  | $\begin{array}{r} \mathrm{ON} \\ \mathrm{OFF} \\ \square \end{array}$ | PNP <br> (voltage input) |

- Up/Down mode

| SW1 | Function |
| :---: | :---: |
| ON $\mathrm{OFF} \square$ | Down mode |
| $\begin{array}{r} \text { ON } \\ \text { OFF } \\ \square \end{array}$ | Up mode |


※1: Indicator model (FS5E-14) does not have no. 1, 2, 3 of SW2 for output operation mode setting.
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Panel Meters
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Indicators

Indicators
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- Memory backup

| SW1 |  | Function |
| :---: | :---: | :---: |
|  | $\begin{array}{\|c\|} \hline \text { ON } \\ \text { OFF } \\ \hline \end{array}$ | No memory backup |
|  | $\begin{array}{r} \mathrm{ON} \\ \mathrm{OFF} \\ \square \end{array}$ | Memory backup |

※How to change settings
Power OFF $\rightarrow$ change settings $\rightarrow$ power $\mathrm{ON} \rightarrow$ press RESET $^{\text {Rey }}$ or input signal (min. 20ms)
$\square$ Time Range

| SW1 | 4-digit | 5-digit |
| :---: | :---: | :---: |
|  | 99.99 sec | 9999.9 sec |
| $\begin{aligned} & \begin{array}{l\|l\|l} 4 & 3 & 2 \\ \text { ON } \\ \text { OFF } & \square & \square \\ \hline \end{array} \end{aligned}$ | 999.9 sec | 99999 sec |
| $\begin{gathered} \begin{array}{l\|l\|l\|} 4 & 3 & 2 \\ \mathrm{ON} \\ \hline & \square & \square \\ \mathrm{OFF} \\ \square & & \square \\ \hline \end{array} \end{gathered}$ | 9999 sec | $\begin{aligned} & 9 \mathrm{~min} \\ & 59.99 \mathrm{sec} \end{aligned}$ |
|  | $\begin{aligned} & 99 \mathrm{~min} \\ & 59 \mathrm{sec} \end{aligned}$ | $\begin{aligned} & 99 \mathrm{~min} \\ & 59.9 \mathrm{sec} \end{aligned}$ |


| SW1 | 4-digit | 5-digit |
| :---: | :---: | :---: |
| $\begin{array}{l\|l\|l\|} \hline 4 & 3 & 2 \\ \mathrm{ON} \\ \hline \mathrm{OFF} & \square & \square \\ \hline \end{array}$ | 999.9 min | 9999.9 min |
|  | 99 hour 59 min | 9 hour 59 min 59 sec |
|  | 999.9 hour | $\begin{aligned} & 999 \text { hour } \\ & 59 \text { min } \end{aligned}$ |
| $$ | 9999 hour | 9999.9 hour |

## Dot for Hour, Min, Second


E.g.) 5959: 59 min 59 sec
※In run mode, hold the RESET key for over 3 sec , and it enters setting mode[ $d P]$.
※In setting mode, hold the RESET key for over 3 sec, and it saves the setting and returns to RUN mode.
※If there is no reset key input for 60 sec when entering setting mode, it returns to RUN mode.

## $\square$ Time Operation for Indicator (FS5E-I4)

- Up mode

- Down mode

※- display is only for $\mathrm{F}, \mathrm{K}, \mathrm{Q}, \mathrm{S}$ output operation mode and it cannot be set.


## Error Display and Output Operation

| Error Display | Error description | Troubleshooting |
| :---: | :--- | :--- |
| Err0 | Setting value is 0. | Change the setting value anything but 0. |

※When error occurs, the output turns OFF.
※Indicator model does not have error display function.

## 8 Pin Plug Timer

## Output Operation Mode

| 且 $\leftarrow$ One-shot output ( 0.05 to 5 sec ) |  |  | $\ulcorner\longleftarrow$ Self-holding output |
| :---: | :---: | :---: | :---: |
| $\begin{array}{\|l} \text { Output mode } \\ \text { (SW2) } \end{array}$ |  |  | Operation |
|  |  |  | After time-up, the display value increases or decreases until rese signal input is applied and self-holding output is maintained |
|  |  |  | After time-up, the display value and self-holding output are maintained until reset signal input is applied. |
| $\mid$ |  |  | When time-up, the display value is reset and it operates simultaneously. |
|  |  |  | After time-up, the display value is reset after one-shot output time and it operates simultaneously. |
|  |  |  | After time-up, the display value creases or decreases until rese signal input is applied. |
|  |  |  | After time-up, the display value is maintained while output is ON. The value is internally reset and it operate simultaneously. |
|  |  |  | After time-up, the display value ses or decreases during oneshot output time |
|  |  |  | Output turns $\mathrm{OFF} \rightarrow \mathrm{ON} \rightarrow \mathrm{OFF}$ operates repeatedly (flicker). |

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## $\square$ Proper Usage

- Follow instructions in 'Proper Usage'. Otherwise, it may cause unexpected accidents.
- 24-48VDC, 24VAC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- Use the product, 0.1 sec after supplying power.
- When supplying or turning off the power, use a switch or etc. to avoid chattering.
- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- Keep away from high voltage lines or power lines to prevent inductive noise.

In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.
Do not use near the equipment which generates strong magnetic force or high frequency noise.

- Change setting time(T1), time range or etc. after turning off the power of the timer.
- This product may be used in the following environments.
(1)Indoors (in the environment condition rated in 'Specifications')
(2)Altitude max. $2,000 \mathrm{~m}$
(3) Pollution degree 2
(4)Installation category II


[^0]:    ※Set one-shot output time by front TIME volume switch.

