

| $\square$ Model |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Model | Display digit | Size |  | Power supply$24 \mathrm{VAC} 50 / 6 \mathrm{~Hz}, 24.48 \mathrm{VDC}$ |
| FS4-1P2 |  | D N W48xH48mm | 1-Stage setting |  |
| FSS-1P4 |  |  |  |  |
| FS5-14 | 99999 (5-digit) |  | Indicator | 100-240VAC 50160Hz |
| etet (PG-08, PS-08(N)) is sold s. |  |  |  |  |
| $\square$ Specifications |  |  |  |  |
|  | 1-stage setting | FS4-1P2 |  | FS4- | - |
|  | Indicator |  |  | F5S-14 |
| Display digit |  | 4-digit |  | 5-digit |
| Character size ( $\mathrm{W} \times \mathrm{H}$ ) |  | $38 \times 7.6 \mathrm{~mm}$ |  | $4 \times 8 \mathrm{~mm}$ |
| Power supply |  | 24VAC~ 50160Hz, ${ }^{2}$ |  |  |
| Permissible voltage range |  | 20 to $110 \%$ of rated voltage |  |  |
| Power consumplion |  | Max.35VA | ${ }^{\text {Max. 4.6VA }}$ | Max. 3 8VA |
|  |  | $\begin{array}{\|l\|l} (24 \mathrm{VAC} \sim 50 / 60 \mathrm{~Hz}), & (100-240 \mathrm{VAC} \sim \\ \text { Max. } 23 \mathrm{~W}(24-48 \mathrm{VDC}=-) & 50 / 60 \mathrm{~Hz}) \end{array}$ |  | (100-240V 50/60H |
| Max. counting speed for |  | Selectable 19ps/30cps/2/kpps/5kpps (IDP swith) |  |  |
| Return time |  | Max. 500ms |  |  |
| Min. signal widh |  |  |  |  |  |  |
| Input metho |  | ${ }_{\text {RESETT approx. } 20 \mathrm{~ms}}^{\text {Selectable voltage input (PNP) method or no-voltage input (i) }}$ |  |  |
|  |  | [Voltage input (PNP) method]-inout impedance: max. 108 k . <br>  <br> [No-voltage input (NPN) method]-short-circuit impedance: max. $470 \Omega$, short-circuit residual voltage: max. 1VDC open-circuit impedan |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| One-shot output time |  |  |  |  |
| ${ }^{\text {Control }}$ Oiput | - Teatype |  |  |  |  |  |
|  | ${ }_{\text {M }}$ Mectanainaal Capaity | 25VVCO $\sim$ AA, 30VDC= Min. $5,000,00$ operation | Min. $5,000,000$ operations |  |
| ${ }_{\text {Relay }}^{\text {R }}$ | Electrical | Min. 100.000 operations | 5 (250VAC 3A resis | stive load) |
| Insulation res | resistance | Over 100M2 (at 500VDCC megger) |  |  |
|  | Exteral power supply | Max. $12 \mathrm{VDC}= \pm 10 \% 50 \mathrm{~mA}$ |  |  |
| ${ }^{\text {Memory retention }}$ Dielectic strength |  |  |  |  |  |  |
|  |  |  |  |  |
| Noise <br> immunity |  |  |  |  |
|  | ACIDC voltage |  |  |  |  |  |
| Vibration | anical | 0.75 mm amplitude at frequency 10 to 55 Hz (for 1 min ) in each $\mathrm{X}, \mathrm{Y}, \mathrm{Z}$ direction for 1 hour |  |  |
|  |  |  |  |  |  |  |
|  | Mal | 05 mm amplitude at freqdirection for 10 minutes |  |  |
| Shock | Mechanical | $300 \mathrm{~m} / s^{2}$ 2approx. 306) in each $X, Y, \mathrm{Z}$ direction for 3 times |  |  |
|  | Malfunction | 100m/s ${ }^{2}$ approx. 10G) in each $X, Y, Y$ d direction for 3 times |  |  |
| En | Ambient te |  |  |  |  |  |
|  | Ambient tumi. |  |  |  |
| Protection structure |  | ${ }^{1220}$ (front part, EC standara) |  |  |
|  |  |  |  |  |  |  |  |
| Weight |  |  |  |  |
| *1: The weight includes packaging. The weight in parenthesis is for unit only. ※Environment resistance is rated at no freezing or condensation. |  |  |  |  |



- Input logic (COUNT IN, RESET input)



$\xrightarrow{\text { Power OFF } \rightarrow \text { changese setings } \rightarrow \text { power } \mathrm{ON} \rightarrow \text { press } \text { Reser } \text { key or input signal (min. 20ms) }}$
$\square$ Output Operation Mode


## $\square$ Input Connection

- Voltage input (PNP)



## $\square$ Connections

|  |
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m

## - FS4-1P2



SOURCE:

\section*{ <br> | Outp |
| :--- |
| (sw2 |
| F |
|  |
|  |}

ne-shot output ( 0.05 to 5 sec ) $\quad$ - $\leftarrow$ Self-holding output


ON

##  <br> 

$\qquad$

ESET П | seting-- |
| :--- | :--- | :--- |
| output |



Lent
$\square \square$

 After count-up, counting - dispolay value and seff-- ${ }^{\text {minintained until }}$ seset

- When count-up, When count-up,
counting display yalue
is reset and
ditcounts


Atie count-up, counting display value is reset
atita oneshot out
time and it ounts time and it counts
 apo der reases untiti resest
signal inut is applied. Afer countup, counting maintined while outpur
is oN. Counting value is 0 N. Counting value
is inimaly
countsent simultand and After count-up, counting
 $-\begin{aligned} & \text { or decreases duting } \\ & \text { onesshot tutput time. }\end{aligned}$

- Output maintann on Outpur maintans on
when countag ispoy
value is algere or equal than setting value.
- Dot for Decimal Point



## $\square$ Detaching Case



Push the grooves at both side of the unit with a flat head driver to the outside and push the plug par $\Delta$ Be sure not to be wounded when using a tool.

## $\square$ Counting Operation for Indicator (FS5-I4

RESET 7
+Max. display
value
0


Error Display and Output Operation

| Eror isplay | ETror descripion | Troubleshooting |
| :---: | :---: | :---: |
| ErrO | Seting vaue is 0. | Change the seting value anything but 0. | ※When error occurs, the output turns OFF

XIndicator model does not have error display function
$\square$ Cautions during Use


4. When supplying or turning off the power, use a swith or etc. to avoid chattering.
5. Instala a power switc or circuit breaker in the easily accessible place for supplying or
disconnectine disconnecting the power.
In case of contact input, set count speed tol low speed mode ( 1 cps or 30 cps) to operate.
If set to high speed mode $(2 \mathrm{kcps}$ or 5 kcps ), counting error occurs due to chattering. Keep away from high voltage lines or or power ines to prevent ind due to no haterent In case installing power ine and inputs isinal lines closely, use line fiter or varistor at power
line and shielded wire a t input signal line Iine and shielded wire at input signal line.
Do not use near the equipment which 9
H. This product may be used in the following environments.
©indoors $i$ in the enviromment condition rated in in Specific
©indors (in the environment condition rated in 'Specifications')
(®Atitude max. $2,000 \mathrm{~m}$
©OPOUlution degree 2
Major Products






(Fiber, Con N: MaG)

