

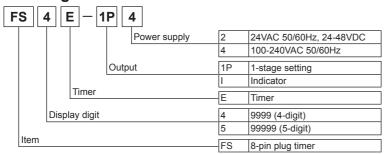
DIN W48×H48mm 8 Pin Plug Timer

Features

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



Ordering Information



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

Specifications

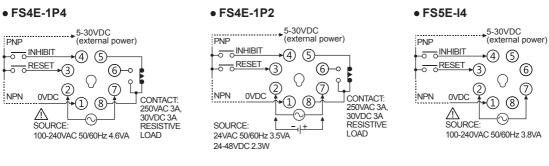
Model	1-stage setting		FS4E-1P2	FS4E-1P4	—			
woder	Indicate	or	—	—	FS5E-I4			
Display dig	it		4-digit		5-digit			
Character :	size (W×H)		3.8×7.6mm		4×8mm			
Power sup			24VAC~ 50/60Hz, 24-48VD0	C== 100-240VAC~ 50/60)Hz			
Permissible	e voltage rar	nge	90 to 110% of rated voltage					
Power con	numption		Max. 3.5VA (24VAC \sim 50/60H	Hz), Max. 4.6VA	Max. 3.8VA			
Fower con	sumption		Max. 2.3W (24-48VDC==)	(100-240VAC \sim 50/6	0Hz) (100-240VAC~ 50/60Hz)			
Return time	Э		Max. 500ms					
Time opera	ation		Power ON Start					
Min. signal	width		RESET, INHIBIT: approx. 20ms					
			Selectable voltage input (PNF					
Input meth	od				3kΩ, [H]: 5-30VDC==, [L]: 0-2VDC			
linput mean	00		[No-voltage input (NPN) method] short-circuit impedance: max. 470Ω, short-circuit residual voltage: max. 1VDC,					
				open-circuit impedance: r	min. 100kΩ			
One-shot o			0.05 to 5 sec					
Control		/pe	Time-limit SPDT (1c)					
Capacity 250VAC~ SA, 50VDC== SA resistive load								
	Mechanical		Min. 5,000,000 operations					
life cycle Electrical			Min. 100,000 operations (250VAC 3A resistive load)					
Memory retention			Approx. 10 years (non-volatile memory)					
Repeat err	or							
Set error			Max. ±0.01% ±0.05 sec					
Voltage error								
Temp. error								
Insulation resistance			Over 100MΩ (at 500VDC megger)					
Dielectric strength			2,000VAC 50/60Hz for 1 min (between all terminals and case)					
	AC voltage		±2kV the square wave noise (pulse width 1µs) by noise simulator					
	AC/DC volt	- 0 -	±500V the square wave noise (pulse width 1µs) by noise simulator					
Wibration	Mechanical		0.75mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour					
VIDIATION	Malfunction		0.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 minutes					
Shock	Mechanical		300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times					
Malfunction			100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times					
Environ- Ambient temp.			-10 to 55°C, storage: -25 to 65°C					
ment Ambient humi.		mi.	35 to 85%RH, storage: 35 to 85%RH					
Protection structure			IP20 (front part, IEC standard)					
Approval								
Weight ^{*1}			Approx. 130g (approx. 90g)		Approx. 120g (approx. 80g)			
X1. Tho w	aight include	no nooka	aina. The weight in narenthes	in in for unit only	- · · · · · · · · · · · · · · · · · · ·			

%1: The weight includes packaging. The weight in parenthesis is for unit only.

*Environment resistance is rated at no freezing or condensation.



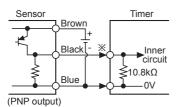
Connections

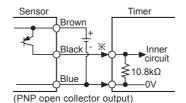


Input Connections

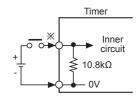
○ Voltage input (PNP)

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





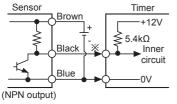
• Contact input

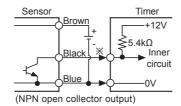


※INHIBIT, RESET input part

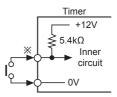
○ No-voltage input (NPN)

• Solid-state input (standard sensor: NPN output type sensor)



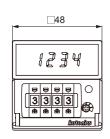


• Contact input

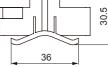


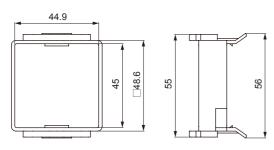
XINHIBIT, RESET input part

Dimensions









○ Panel cut-out

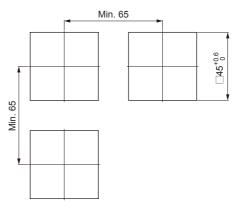
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63.8

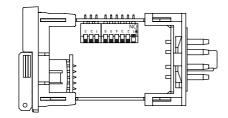
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12.3

10.5



DIP Switch Setting



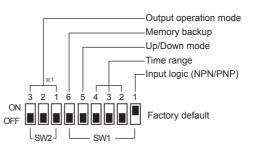
• Input logic (INHIBIT, RESET input)

SW1		Function
	ON OFF	NPN (no-voltage input)
	ON OFF	PNP (voltage input)

• Up/Down mode

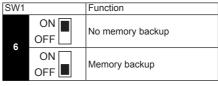
SW1		Function
5	ON OFF	Down mode
5	ON OFF	Up mode

Power OFF \rightarrow change settings \rightarrow power ON \rightarrow press **RESET** key or input signal (min. 20ms)



%1: Indicator model (FS5E-I4) does not have no. 1, 2, 3 of SW2 for output operation mode setting.

Memory backup

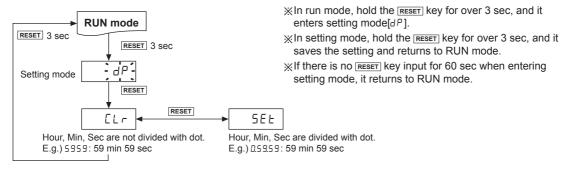


(unit: mm)

Time Range

SW1	4-digit	5-digit	SW1	4-digit	5-digit
4 3 2 ON OFF	99.99sec	9999.9sec	4 3 2 ON OFF	999.9min	9999.9min
4 3 2 ON OFF	999.9sec	99999sec	4 3 2 ON OFF	99hour 59min	9hour 59min 59sec
4 3 2 ON OFF	9999sec	9min 59.99sec	4 3 2 ON	999.9hour	999hour 59min
4 3 2 ON OFF	99min 59sec	99min 59.9sec	ON OFF	9999hour	9999.9hour

Dot for Hour. Min. Second



Time Operation for Indicator (FS5E-I4)



x- display is only for F, K, Q, S output operation mode and it cannot be set.

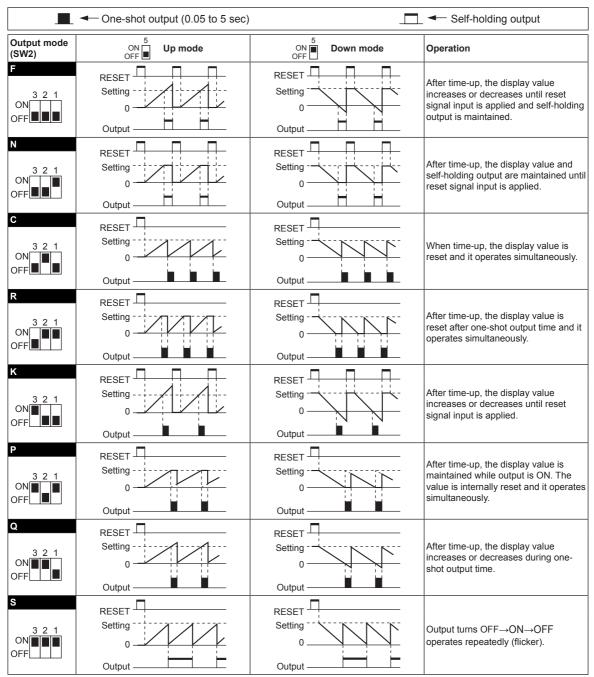
Error Display and Output Operation

ErrD Setting value is 0. Change the setting value anything but 0.	Error Display	Error description	Troubleshooting
	ErrO	Setting value is 0.	Change the setting value anything but 0.

When error occurs, the output turns OFF.

XIndicator model does not have error display function.

Output Operation Mode



%Set one-shot output time by front TIME volume switch.

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.
- (Indoors (in the environment condition rated in 'Specifications') 2 Altitude max. 2,000m ③Pollution degree 2 ④Installation category II

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