DIN W48×H48mm 8 Pin Plug Timer

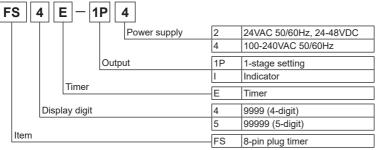
Features

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- 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 50/60Hz, 24VAC 50/60Hz, 24-48VDC universal
- Memory protection for 10 years (using non-volatile semiconductor)
- Built-in Microprocessor



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



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

Specifications

	1-stage setting		FS4E-1P2	FS4E-1P4	_		
Model	Indic	ator	_	-	FS5E-14	(N) Timers	
Display digit			4-digit	·	5-digit	Timers	
Character	size (W×F	H)	3.8×7.6mm		4×8mm		
Power sup	ply		24VAC~ 50/60Hz, 24-48VDC	100-240VAC~ 50/60Hz	·	(O) Digital	
Permissibl	e voltage	range	90 to 110% of rated voltage	,			
Power con			Max. 3.5VA (24VAC~ 50/60Hz) Max. 2.3W (24-48VDC)	, Max. 4.6VA (100-240VAC~ 50/60Hz)	Max. 3.8VA (100-240VAC~ 50/60Hz)	(P)	
Return tim	е		Max. 500ms			Indicators	
Time opera	ation		Power ON Start				
Min. signal	l width		RESET, INHIBIT: approx. 20ms				
Input method			Selectable voltage input (PNP) method or no-voltage input (NPN) method [Voltage input (PNP) method] input impedance: max. 10.8kΩ, [H]: 5-30VDC==, [L]: 0-2VDC			(Q) Converters	
			[No-voltage input (NPN) method] short-circuit impedance: max. 470Ω, short-circuit residual voltage: max. 1VDC, open-circuit impedance: min. 100kΩ			(R) Digital Display Unit	
One-shot o	output time		0.05 to 5 sec		1	┥╞───	
Control	Contact	Туре	Time-limit SPDT (1c)			(S) Sensor	
output Capacity 250VAC~ 3A, 30VDC= 3A resistive load						Controllers	
Relay	Mechanic		Min. 5,000,000 operations			-	
life cycle Electrical Memory retention			Min. 100,000 operations (250VAC 3A resistive load)				
			Approx. 10 years (non-volatile memory)				
Repeat err Set error	01						
Voltage eri	ror		Max. ±0.01% ±0.05 sec				
Temp. error Insulation resistance			Over 100MΩ (at 500VDC megger)				
Dielectric strength			2,000VAC 50/60Hz for 1 min (between all terminals and case)				
Noise	AC volta	ne	±2kV the square wave noise (pulse width 1µs) by noise simulator			(V) HMIs	
immunity AC/DC voltage			±500V the square wave noise (pulse width 1µs) by noise simulator			┥┝───	
	Mechanic		0.75mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour		(W)		
Vibration	Malfunction		0.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min			Panel PC	
	Mechanio		300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times				
Shock	Malfuncti		100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times			(X) Field Network	
Environ- Ambient temp.			-10 to 55°C, storage: -25 to 65°C				
ment Ambient humi. 35 to 85%RH, storage: 35 to 85%RH							
Protection			IP20 (front part, IEC standard)			1	
Approval						1	
Weight ^{*1}			Approx. 130g (approx. 90g)		Approx. 120g (approx. 80g)	1	
	eight inclu	ides packa	ging. The weight in parenthesis i	s for unit only.			
			ted at no freezing or condensatio				



(J) Temperature Controllers

(K) SSRs

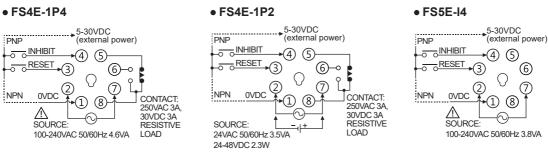
Power Controllers

(L)

(M) Counters

Autonics

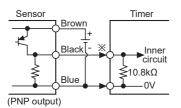
Connections

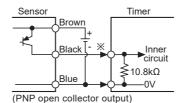


Input Connections

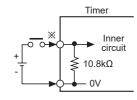
○ Voltage input (PNP)

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





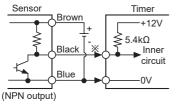
• Contact input

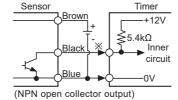


※INHIBIT, RESET input part

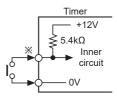
○ No-voltage input (NPN)

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



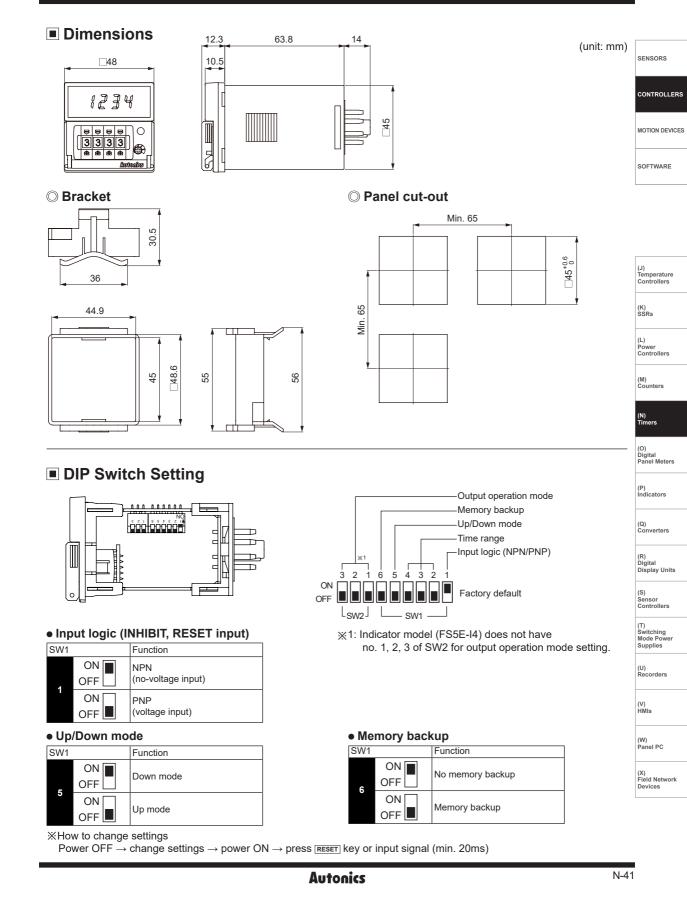


• Contact input



XINHIBIT, RESET input part

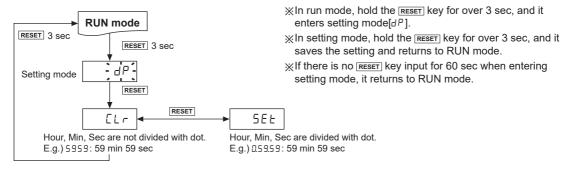
8 Pin Plug Timer



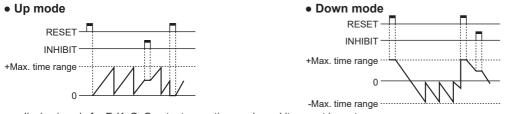
Time Range

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

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.	E	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

	 One-shot output (0.05 to 5 sec) 		Self-holding output	SENSORS
Output mode (SW2)	OF Up mode	ON Down mode	Operation	CONTROLLERS
F 3 2 1 ON OFF ■ ■	RESET Setting	RESET	After time-up, the display value increases or decreases until reset signal input is applied and self-holding output is maintained.	MOTION DEVICES
N ON OFF	RESET O	RESET 0 Output	After time-up, the display value and self-holding output are maintained until reset signal input is applied.	
C 3 2 1 ON	RESET Setting	RESET Setting	When time-up, the display value is reset and it operates simultaneously.	(J) Temperature Controllers (K) SSRs
	Output	Output	After time-up, the display value is reset after one-shot output time and it operates simultaneously.	(L) Power Controllers (M) Counters
	Output	Output	After time-up, the display value increases or decreases until reset signal input is applied.	(N) Timers (O) Digital Panel Meters
P 3 2 1 ON OFF	Output	Output	After time-up, the display value is maintained while output is ON. The value is internally reset and it operates simultaneously.	(P) Indicators (Q) Converters
	Output	Output RESET Setting 0	After time-up, the display value increases or decreases during one-shot output time.	(R) Digital Display Units (S) Sensor Controllers
0FF S 3 2 1 ON	Output	Output	Output turns OFF→ON→OFF operates repeatedly (flicker).	(T) Switching Mode Power Supplies (U) Recorders
	Output	Output	, , , , , , , , , , , , , , , , , , ,	(V) HMIs

XSet one-shot output time by front TIME volume switch.

(W) Panel PC

(X) Field Network Devices

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.
- ①Indoors (in the environment condition rated in 'Specifications')
 ②Altitude max. 2,000m
 ③Pollution degree 2
 ④Installation category II