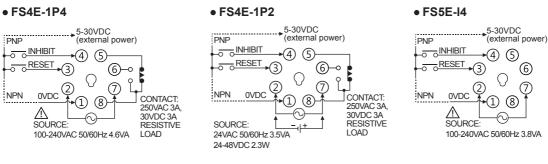
		mm 8 Pin Pl	ugʻ	Ti	mer			(A) Photoelectric	
Features								Sensors	
<ul> <li>Wide range of the time selection (0.01sec to 9999.9 hour)</li> <li>Selectable voltage input (PNP) method or no-voltage input (NPN) method</li> <li>Dot for Decimal Point / Hour. Min. Second by RESET key</li> <li>Wide range of power supply</li> <li>100.240//AC 50/60Hz 24/48//DC universal</li> </ul>								(B) Fiber Optic Sensors	
								(C) Door/Area Sensors	
: 100-240VAC 50/60Hz, 24VAC 50/60Hz, 24-48VDC universal Memory protection for 10years (using non-volatile semiconductor) Built-in Microprocessor								(D) Proximity Sensors	
/!\ manu	ual before using.	iderations" in operation	(	E	c AL US			(E) Pressure Sensors	
Ord	ering Infor	mation							
FS	4 E – 1F	24						(F) Rotary Encoders	
		Power supply	2		4VAC 50/60Hz, 24-48VDC	]		(G) Connectors/	
			4	_	00-240VAC 50/60Hz	]		Connector Cables Sensor Distributio Boxes/Sockets	
		Output			stage setting	-			
	Timer						(H) Temperature Controllers		
			- <u>E</u>	Ti	mer				
	Display digit		4	_	999 (4-digit)	]		(I) SSRs / Power	
lta			5	99	9999 (5-digit)			Controllers	
Ite	m		-FS	-FS 8-pin plug timer				(L)	
×8	-pin socket (PG-08	s, PS-08(N)) is sold separ	rately.					(J) Counters	
Spe	cifications	,							
	1-stage setting				FS4E-1P4		<b>—</b>	(K) Timers	
Model	Indicator	—			-		FS5E-I4		
Display dig		4-digit					5-digit	(L) Panel	
Power sup	size (W×H)	3.8×7.6mm 24VAC~ 50/60Hz, 24-4	48\/DC:		100-240VAC~ 50/60Hz		4×8mm	Panel Meters	
	e voltage range	90 to 110% of rated vol						(M)	
Power con:	ž ž	Max. 3.5VA (24VAC~ 5	50/60Hz	z),	Max. 4.6VA		Max. 3.8VA	(M) Tacho / Speed / Pulse	
	•	Max. 2.3W (24-48VDC:	)		(100-240VAC~ 50/60Hz)		(100-240VAC~ 50/60Hz)	Meters	
Return time Time opera		Max. 500ms Power ON Start						(N)	
Min. signal		RESET, INHIBIT: appro	x. 20m	s				Display Units	
		Selectable voltage inpu	it (PNP)	) me	thod or no-voltage input (NPN				
Input meth	od		[Voltage input (PNP) method] input impedance: max. 10.8kΩ, [H]: 5-30VDC=, [L]: 0-2VDC [No-voltage input (NPN) method] short-circuit impedance: max. 470Ω, short-circuit residual voltage: max. 1VDC, open-circuit impedance: min. 100kΩ				(O) Sensor Controllers		
One-shot o	output time	0.05 to 5 sec						(P) Switching	
Control	Contact Type	Time-limit SPDT (1c)						Mode Power Supplies	
output Relay	Mechanical	250VAC~ 3A, 30VDC= Min. 5,000,000 operation		SISTI	ve load			(Q)	
life cycle		Min. 100,000 operations (250VAC 3A resistive load)						Stepper Motors & Drivers	
Memory re		Approx. 10 years (non-		/			& Controllers		
Repeat err	or							(R) Graphic/	
Set error		Max. ±0.01% ±0.05 sec	2					Logic Panels	
Voltage err Temp. erro		-					(S)		
Insulation r		Over 100MΩ (at 500VD	)C meager)				(S) Field Network		
Dielectric s					veen all terminals and case)			Devices	
	AC voltage	±2kV the square wave noise (pulse width 1µs) by noise simulator							
immunity	unity AC/DC voltage ±500V the square wave noise (pulse width 1µs) by noise simulator						(T) Software		
Vibration	Mechanical Malfunction								
	Mechanical 300m/s <sup>2</sup> (approx. 30G) in each X, Y, Z direction for 3 times								
Shock	Malfunction	100m/s <sup>2</sup> (approx. 10G) in each X, Y, Z direction for 3 times							
Environ-	Environ- Ambient temp10 to 55°C, storage: -25 to 65°C								
ment Ambient humi. 35 to 85%RH, storage: 3					₹H				
Protection Approval	structure	IP20 (front part, IEC standard)							
Approval Weight <sup>*1</sup>		СС в Хиз Арргох. 130g (арргох. 90g) Арргох. 120g (арргох. 80g)							
	eight includes pack	aging. The weight in pare		s is f	or unit only.		r +		
※Environm	ent resistance is ra	ated at no freezing or con	idensati	ion.					

**Autonics** 

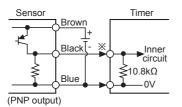
### Connections

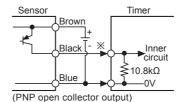


## Input Connections

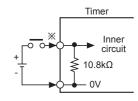
#### ○ Voltage input (PNP)

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





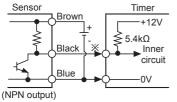
#### • Contact input



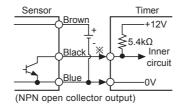
**※INHIBIT**, RESET input part

#### ○ No-voltage input (NPN)

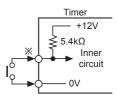
#### • Solid-state input (standard sensor: NPN output type sensor)



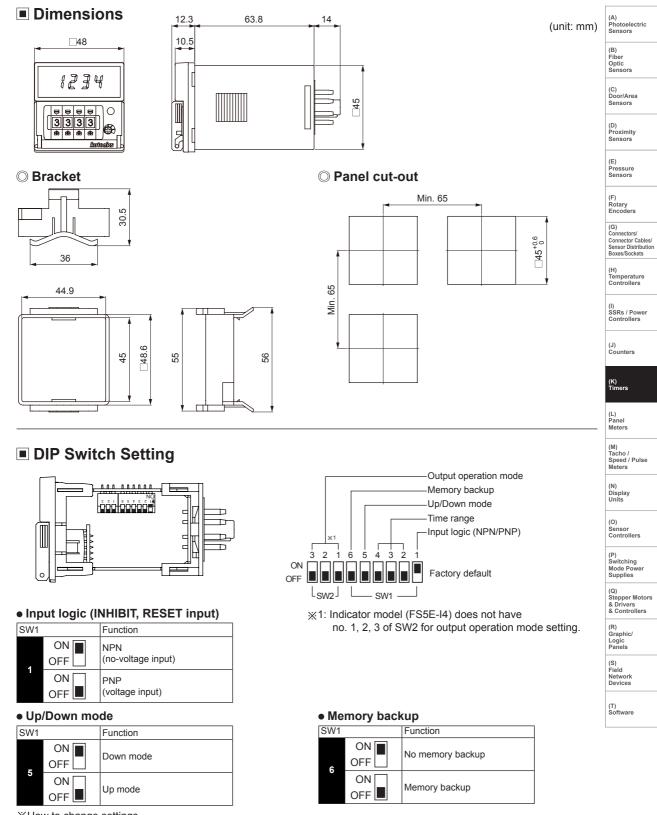
**XINHIBIT, RESET input part** 



• Contact input



# 8 Pin Plug Timer



※How to change settings

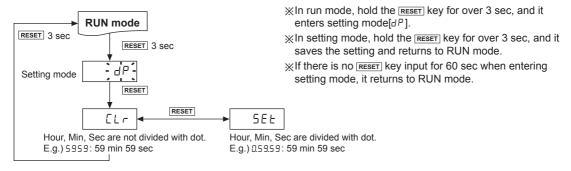
Power OFF  $\rightarrow$  change settings  $\rightarrow$  power ON  $\rightarrow$  press reset key or input signal (min. 20ms)



### 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	4 3 2 ON	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

$E_{c,c,0}$ Setting value is 0. Change the setting value anything but 0.	Error Display	Error description	Troubleshooting
Crife Bolding value is 0. Onlinge the setting value anything but 0.	ErrD	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

Output	Operation Mode			(A) Photoelectric
	<ul> <li>One-shot output (0.05 to 5 sec)</li> </ul>		Self-holding output	Sensors (B)
Output mode (SW2)	ON OFF Up mode	ON Down mode	Operation	Fiber Optic Sensors
F			After time-up, the display value	(C) Door/Area Sensors
3 2 1 ON OFF	Setting	Setting 0 / / / Output H H	increases or decreases until reset signal input is applied and self-holding output is maintained.	(D) Proximity Sensors
Ν				(E) Pressure Sensors
3 2 1 ON OFF	Setting 0	Setting 0	After time-up, the display value and self-holding output are maintained until reset signal input is applied.	(F) Rotary Encoders
C				(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets
321 ON	Setting 0	Setting 0	When time-up, the display value is reset and it operates simultaneously.	(H) Temperature Controllers
OFF	Output	Output		(I) SSRs / Power Controllers
321 ON OFF	RESET		After time-up, the display value is reset after one-shot output time and it	(J) Counters
	Output	0	operates simultaneously.	(K) Timers
K	RESET	RESET Setting	After time-up, the display value increases or decreases until reset signal input is applied.	(L) Panel
3 2 1 ON OFF ■				Meters (M)
	Output	Output		Tacho / Speed / Pulse Meters
321 ON OFF	RESET Setting		After time-up, the display value is maintained while output is ON. The value is internally reset and it operates	(N) Display Units
	Output	Output	simultaneously.	(O) Sensor Controllers
Q 3 2 1 ON OFF	RESET Setting		After time-up, the display value increases or decreases during one-	(P) Switching Mode Power Supplies
	Output	0 Output	shot output time.	(Q) Stepper Motors & Drivers & Controllers
S ON OFF	RESET		Output turns OFF→ON→OFF	(R) Graphic/ Logic Panels
			operates repeatedly (flicker).	(S) Field Network Devices
		Output		(T)

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

(T) Software

#### 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