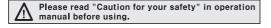
DIN W48×H48mm 8Pin plug Counter

■Features

- ●Upgraded counting speed: 1cps / 30cps / 2kcps / 5kcps
- •Decimal point setting (Fixed decimal point of display)
- ●Wide range of power supply: 100-240VAC 50/60Hz, **12-24VAC/DC**
- •Memory protection for 10years (Using non-volatile semiconductor)
- •Selectable Up/Down for counting value
- •Built-in Microprocessor





Specifications

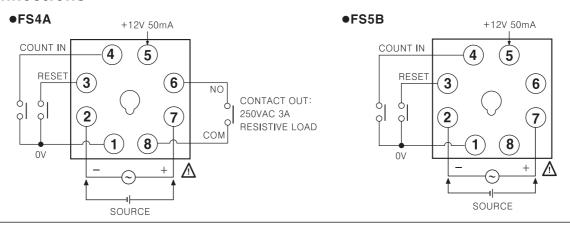
*A blacked(\square) item is upgraded function.

Maralal	Single preset		FS4A		
Model	Indica	ation type		FS5B	
Digit			4	5	
Digit size			W4×H8mm		
Power supply			100-240VAC 50/60Hz, 12-24VAC/DC		
Allowable voltage range			90 ~ 110% of rated voltage		
Power consumption			 Indicator: Approx. 4.7VA(240VAC 60Hz), Approx. 2.8W(24VDC),		
Max. counting speed for CP1, CP2			Selectable 1cps/30cps/2kcps/5kcps by internal DIP switch		
Min. input signal width RESET input		ESET input	Approx.20ms		
Input	C	OUNT IN	No-voltage input • Impedance at short-circuit : Max. 470kΩ		
111531	RE	ESET	 Residual voltage at short-circuit: Max. 1VDC Impedance at open-circuit: Min. 100kΩ 		
One-shot output time		t time	0.05 ~ 5sec		
Control	Contac [*]	Туре	SPST(1a)		
output		Capacity	250VAC 3A resistive load		
Memory p	rotecti	on	10 years(When using non-volatile semiconductor memory)		
External p			$12 \text{VDC} \pm 10\% 50 \text{mA max}.$		
Insulation			100MΩ (at 500VDC)		
Dielectric			2000VAC 50/60Hz for 1 minute		
Noise		power	±2kV the square wave noise(pulse width:1µs) by the noise simulator		
strength		C power	±500V the square wave noise (pulse width:1μs) by the noise simulator		
 Vibratior	ı	echanical		5Hz in each of X, Y, Z directions for 1 hour	
		alfunction	0.5mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 10 minutes		
Shock	-	echanical	300m/s² (Approx. 30G) in X, Y, Z directions 3 times		
	-	alfunction	100m/s² (Approx. 10G) in X, Y, Z directions 3 times		
Relay	Me	echanical	Min. 10,000,000 times		
life cycle	Ele	ectrical	Min. 100,000 times (250VAC 3A at resistive load)		
Ambient temperature			-10 ~ +55 ℃ (at non-freezing status)		
Storage temperature			-25 ~ +65 ℃ (at non-freezing status)		
Ambient humidity			35 ~ 85%RH		
 Unit weigh	AC power		Approx. 122g	Approx. 112g	
		Cpower	Approx. 130g	Approx. 120g	

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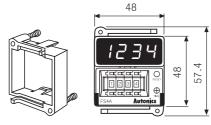
8 Pin Plug type Counter

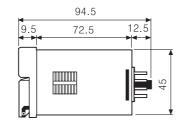
■ Connections

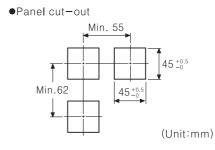


Dimensions

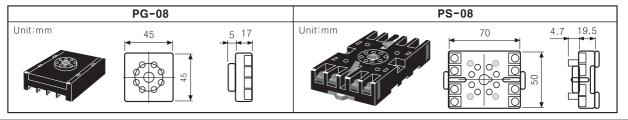






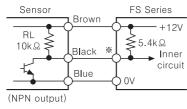


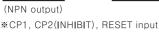
Socket(It is optional)

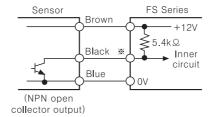


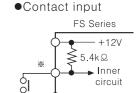
Input connections

Solid-state input (Standard input sensor : NPN output type sensor)







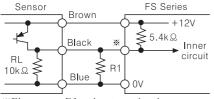


Counting speed: 1 or 30cps setting(Counter)

OVoltage input(PNP)

FXY series is for no voltage input type, it is not available to count applying DC voltage from the external. For using PNP type sensor, please use as the following to count.

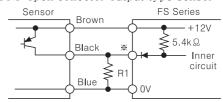
•PNP output sensor



*Please set R1 value to make the composed resistance of RL+R1 as Max. 470Ω is an impedance for short-circuit.

***CP1**, CP2(INHIBIT), RESET input

•PNP open collector output type sensor



*In case of PNP open collector output type sensor, please connect lower than 470Ω of R1 to input terminal before using.

(A) Counter

(B) Timer

(C) Temp.

(D) Power controller

Panel meter

Tacho/ Speed/ Pulse meter

(G) Display unit

Sensor controller

Switching power supply

Proximity sensor

Photo electric sensor

Pressure sensor

Rotary encoder

(N) Stepping motor & Driver &

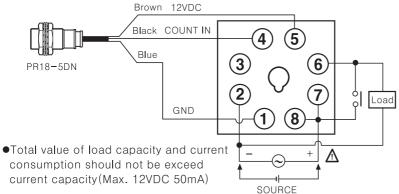
(0) Graphic panel

Production stoppage models & replacement

Autonics A - 54

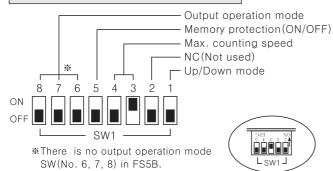
FS Series

Olnput & output connections



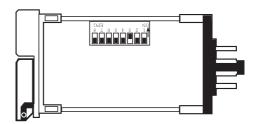
 Please select proper capacity of load not to exceed contact capacity. Contact capacity: 250VAC 3A Max. Contact type: 1a

Selection by DIP switches



Max. counting speed

SW1	Function
ON 4	1cps
ON OFF	30cps
ON 4	2kcps
ON	5kcps



*The max. counting speed is upgraded as 8 DIP SW numbers.

Up/Down mode

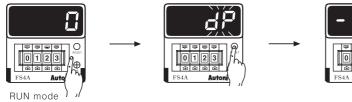
	SW1	Function
1	ON OFF	Down mode
	ON OFF	Up mode

Memory protection

SW1		Function
5	ON OFF	Disable the memory protection
	ON OFF	Enable the memory protection

Decimal point setting

Display the decimal point.



- ※It enters to setting mode of decimal point if pressing RESET button for over 3sec.
- ₩When "dp" is flashing, one touch the Reset
- *Set the position of decimal point using 1, button of digital switch.



Return to RUN mode

XIt returns to RUN mode if pressing RESET button for over 3sec.

•Changing the decimal point

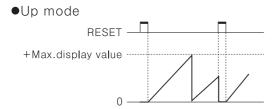


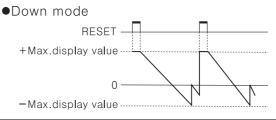
- ※It returns to RUN mode if no RESET button or digital switch is applied for 60sec. in decimal point setting status.
- *The decimal point setting is existed in indication type.

Autonics A - 55

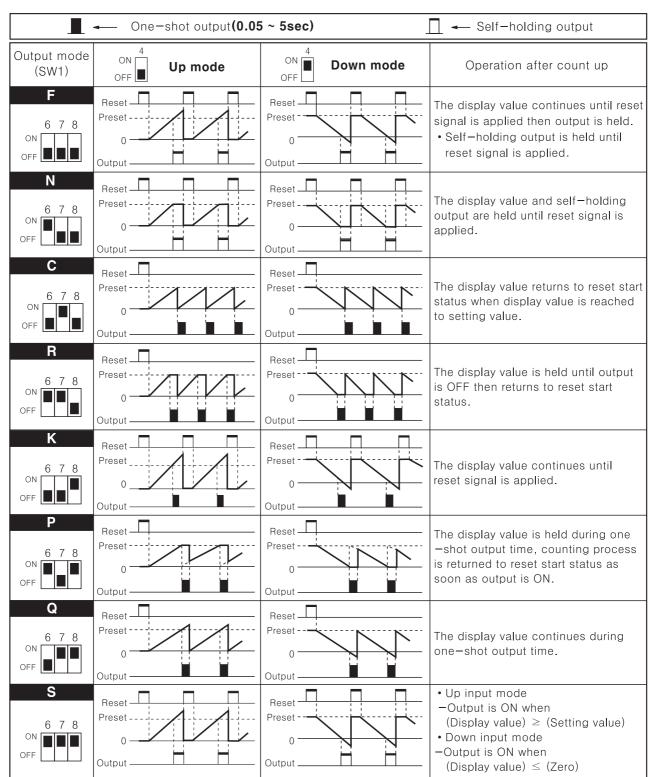
8 Pin Plug type Counter

Counting operation of indication mode(Indication model)





■Output operation mode



(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver &

(O) Graphic panel

(P) Production stoppage models & replacement

A - 56

■Proper usage

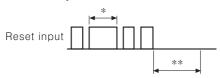
©Reset function

Reset

In case of changing the input mode after supplying the power, please take a external reset or manual reset. If reset is not executed, the counter will be working as previous mode.

Reset signal width

It is reset perfectly when the reset signal is applied during **min. 20ms** regardless of the contact input & solid-state input.

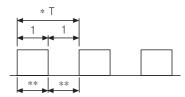


- *In case of a contact reset, it is reset perfectly if the ON time of reset signal is applied during min. 20ms even though chattering is occurred.
- **It can be input the signal of CP1&CP2 after min. 50ms from closing time of reset signal.

OSensor power

The power 12VDC which is provided to sensor is built in it. Please use it under Max. 50mADC.

OMin. signal width of CP1, CP2 input



*Please make duty ratio (ON/OFF) 1:1.

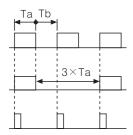
** Min. signal width 7 1cps: Max. 0.5sec 30cps: Max.16.7ms 2kcps: Max. 0.25ms

- 5kcps : Max.0.1ms

Max. counting speed

This is a response speed per 1 sec. when the duty ratio (ON:OFF) of input signal is 1:1. If the duty ratio is not 1:1, the width between ON and OFF should be over min. signal width and the response speed is getting slower against input signal.

If either ON or OFF signal is shorter than minimum signal width, this product may not respond.



Therefore Ta(ON width) and Tb(OFF width) needed to be over min.signal width.

Max. counting speed is 1/2 value of catalog spec. when duty ratio is 1:3.

It can not respond because Max. signal width(1a) is little.

©Error display

Error signal	Error description	Returning method
ErrO	Zero setting status	Change the setting value to non zero status

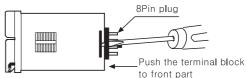
When Error is displayed, the output continues OFF state.There is no Error function in the indication type.



ODetach the case from body

While pushing the Lock part with with driver to the front, push the terminal block.

1) Widen the lock device toward outside, push the plug to the front.



2) Detach the case.



OPower

The inner circuit voltage starts to rise up for the first 100ms after power on, the input may not work at this time. And also the inner circuit voltage drops down for the last 500ms after power off, the input may not work at this time.

