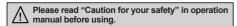
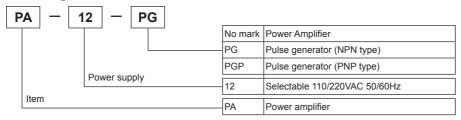
# 8-Pin Plug Type General-Purpose Sensor Controller

#### Features

- Selectable use of 110/220VAC
- Selectable use of NPN, PNP input
- Able to drive loads up to 3A, 250VAC with proximity sensor or photo sensor input
- Convenient to mount on socket by plug in type
- Output relay with both N.O. and N.C. contacts



## Ordering Information



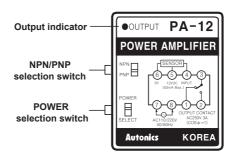
**⊗** ситни РА-12

## Specifications

Model		PA-12	PA-12-PG	PA-12-PGP	
Туре		Selectable NPN/PNP	NPN open collector output	PNP open collector output	
Power supply		Selectable 110/220VAC 50/60Hz	110/220VAC 50/60Hz		
Power consumption		Approx. 4VA			
Power for external sensor		12VDC 50mA	12VDC ±10% 30mA		
Input signal	NPN	Short-circuit impedance: Max. $1k\Omega$ , Residual voltage: Max. $2VDC$ , Open-circuit impedance: Min. $100k\Omega$	Short-circuit impedance: Max. $1k\Omega$ , Residual voltage: Max. $2VDC$ , Open-circuit impedance: Min. $100k\Omega$	_	
	PNP	High level: 7-12VDC, Low level: 0-5VDC	_	High Level: 7-12VDC, Low Level: 0-5VDC	
Response time	Input	Min. 0.2ms			
	Output	Min. 10ms			
Input resistance		10kΩ	_	_	
Control output			NPN open collector output	PNP open collector output	
		Contact capacity: 250VAC 3A (for resistive load)	Allowable input voltage: Max. 30VDC, Rated current: Max. 50mA		
Environment	Ambient temperature	-10 to 50°C			
	Ambient humidity	45 to 85%RH			
Relay life cycle	Mechanical	Min. 10,000,000 operations			
	Electrical	Min. 100,000 operations (250VAC 3A resistive load)			
Unit weight		Approx. 269g			
:::Environmen	nt recistance is rated a	t no freezing or condensation		-	

XEnvironment resistance is rated at no freezing or condensation.

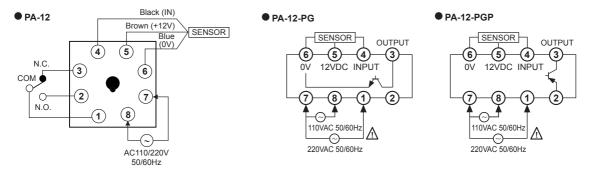
## Unit Description



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# 8-Pin Plug Type General-Purpose Sensor Controller

### Connections



# (A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

(I) SSRs / Power Controllers

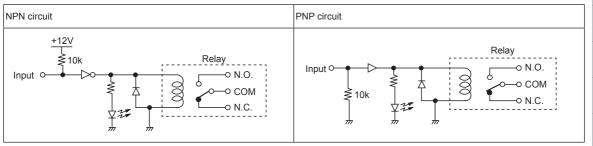
(N) Display Units

(P) Switching Mode Power Supplies

(Q) Stepper Motors

(R) Graphic/ Logic Panels

## **■** Function Diagram

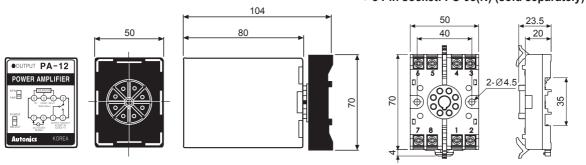


## Operation Mode

Input	NPN	PNP
Input level	H	H
Relay output	N.O	N.O
LED	ON OFF	ON OFF

## Dimensions

## • 8 Pin socket: PS-08(N) (sold separately)



## Proper Usage

- Power selection switch is set according to power voltage.
- Please check connections before wiring.
- Please be cautious not to short-circuit the 12VDC terminal at GND.
- Do not install this unit at place where steam, dust, corrosive gas and water exist.

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