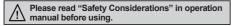
8-Pin Plug Type General-Purpose Sensor Controller

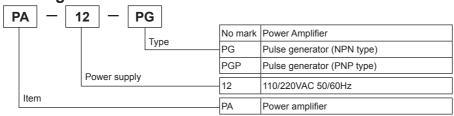
Features

- 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

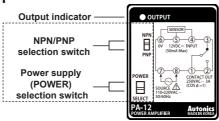


Specifications

Model		PA-12	PA-12-PG	PA-12-PGP		
Туре		Selectable NPN/PNP	NPN open collector only	PNP open collector only		
Power supply		Selectable 110/220VAC~ 50/60Hz	110/220VAC~ 50/60Hz			
Power consumption		Approx. 4VA				
Power supply for sensor		12VDC== ±10% 50mA	12VDC== ±10% 30mA			
		(Make sure that total consumption current shall not exceed sensor's power supply capacity when connecting a sensor.)				
Control output		Relay contact output (Contact capacity : 250VAC~ 3A resistance load, contact arrangement 1a1b)	NPN open collector output	PNP open collector output		
		Life expectancy - Mechanical : Min. 10,000,000 operations - Electrical : Min. 100,000 operations	Allowable input voltage: Max. 30VDC==, Rated current: Max. 50mA			
Input signal	NPN	Short-circuit impedance : Max. 1kΩ, Residual voltage: Max. 2V, Open-circuit impedance : Min. 100kΩ	Short-circuit impedance : Max. $1k\Omega$, Residual voltage: Max. $2V$, Open-circuit impedance : Min. $100k\Omega$	_		
	PNP	High level: 7-12VDC, Low level: 0-5VDC	_	High level: 7-12VDC==, Low level: 0-5VDC		
Input resistance		10kΩ	_	-		
Response	Input	Min. 0.2ms				
time	Output	Min. 10ms				
Environment	Ambient temp.	-10 to 50°C				
	Ambient humi.	35 to 85%RH				
Unit weight		Approx. 269g				
V Environme	at reciptores is	rated at no freezing or condensation	·	·		

XEnvironment resistance is rated at no freezing or condensation.

Unit Description



**The [____] parts are only for the PA-12 model.

O-10

8-Pin Plug Type General-Purpose Sensor Controller

24

104

80

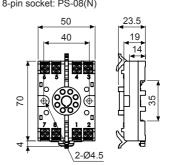
8-pin socket: PS-08(N)

Dimensions

50

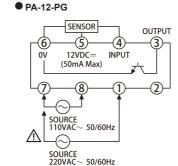
63.5

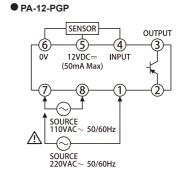
Sold separately8-pin socket: PS-08(N)



Connections

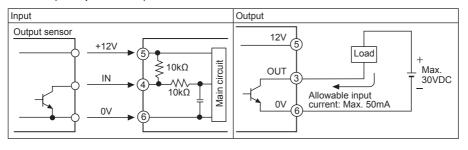
110-220VAC~ 50/60Hz



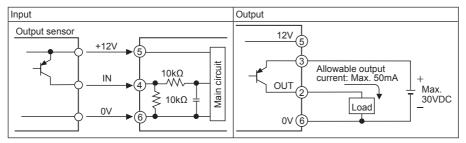


■ Function Diagram

PA-12-PG (NPN open collector)



PA-12-PGP (PNP open collector)



(A) Photoelectric Sensors

(B) Fiber Optic

(unit: mm)

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

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

(H) Temperature

Controllers

(I) SSRs / Power Controllers

Counters

Timers

Panel Meters

(M) Tacho / Speed / Pulse Meters

> N) Display Jnits

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

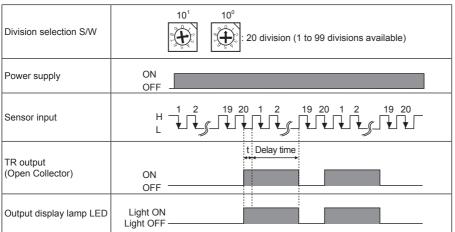
Autonics O-11

PA-12 Series

Operation Mode

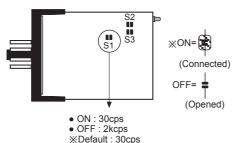
Mode	NPN	PNP	
Input level	H L	H L	
Relay output	N.O.	N.O.	
Relay output	N.C.	N.C.	
Output display lamp LED	Light ON Light OFF	Light ON Light OFF	

PA-12-PG/PGP

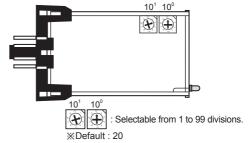


- *When selecting Re-start mode while operating, cut off the power and turn it on again.
- ※Delay Time: Approx. 30ms
- xt: ON time for input signal
 - E.g.) When the signal of which input signal is 100Hz (ON: OFF=1:1) is inserted, 1/100Hz=10ms (ON=5ms, OFF=5ms). Since input signal's on time is 5ms, therefore, total delay time for output waveform becomes approx. 35ms(5ms+30ms).
- XYou should consider total delay time first when selecting the division. When division time is shorter than total delay time, output TR keeps staying ON state.

Semi-contact Specification



Division Selection Switch



Proper Usage

- 1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.
- 2. Since the power for external sensor is without the output short over current protection circuit, do not short circuit 12V and 0V terminals.
- 3. Use the product, 0.1 sec after supplying power.
- 4. When supplying or turning off the power, use a switch or etc. to avoid chattering.
- 5. Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- 6. 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.
- 7. This unit may be used in the following environments.
 - ①Indoors (in the environment condition rated in 'Specifications')
 - ②Altitude max. 2,000m
 - ③Pollution degree 2
 - 4 Installation category II