


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

 Please read "Caution for your safety" in operation manual before using.

■ Ordering information

PA	—	12	
Item		Power supply	12 Selectable 110/220VAC 50/60Hz
		PA	Power amplifier

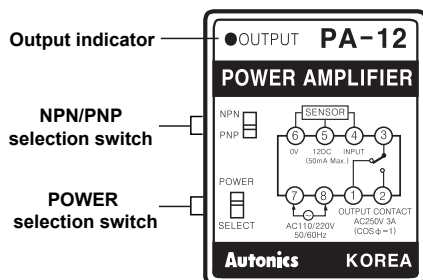


■ Specifications

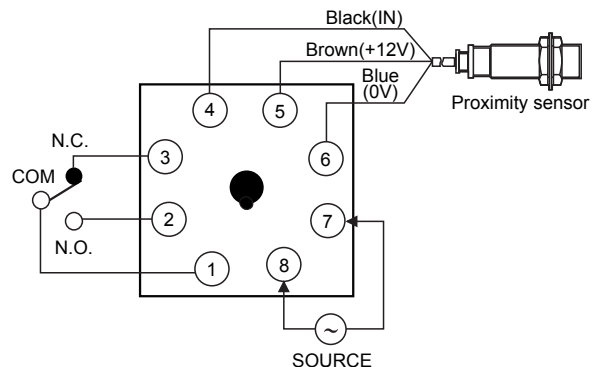
Model		PA-12
Type		Selectable NPN/PNP
Power supply		Selectable 110/220VAC 50/60Hz
Power consumption		Approx. 4VA
Power for external sensor		12VDC 50mA
Input signal	PNP	High level : 7-12VDC, Low level : 0-5VDC
	NPN	Short-circuit impedance : Max. 1kΩ, Residual voltage : Max. 2VDC, Open-circuit impedance : Min. 100kΩ
Response time	Input	Min. 0.2ms
	Output	Min. 10ms
Input resistance		10kΩ
Controloutput	Contact composition	SPDT(1a1b)
	Contact capacity	250VAC 3A(For resistive load)
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

※Environment resistance is rated at no freezing or condensation.

■ Front panel identification

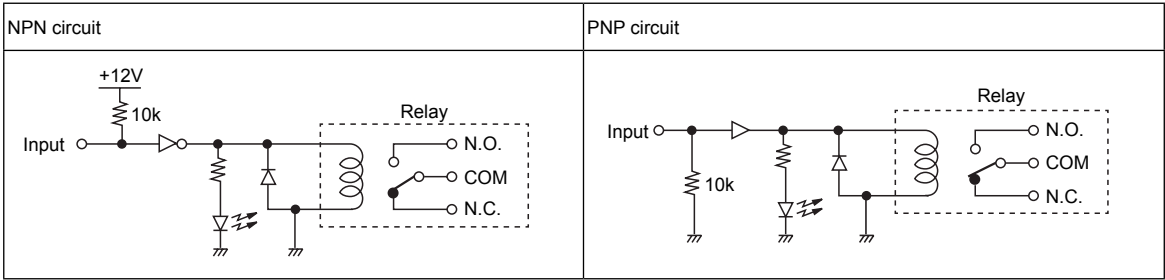


■ Connections



Sensor Controller

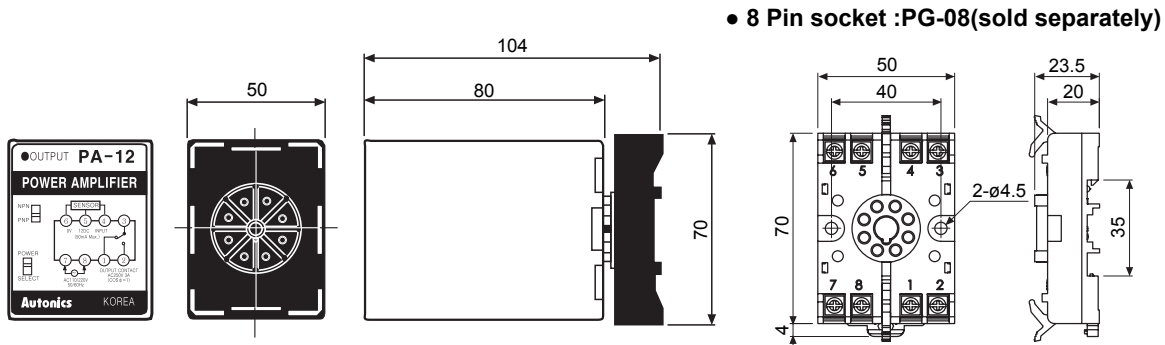
Function diagram



Operation mode

Input	NPN	PNP
Input level		
Relay output		
LED		

Dimensions



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.

(A)	Photo electric sensor
(B)	Fiber optic sensor
(C)	Door/Area sensor
(D)	Proximity sensor
(E)	Pressure sensor
(F)	Rotary encoder
(G)	Connector/Socket
(H)	Temp. controller
(I)	SSR/ Power controller
(J)	Counter
(K)	Timer
(L)	Panel meter
(M)	Tacho/ Speed/ Pulse meter
(N)	Display unit
(O)	Sensor controller
(P)	Switching mode power supply
(Q)	Stepper motor& Driver&Controller
(R)	Graphic/ Logic panel
(S)	Field network device
(T)	Software
(U)	Other