

HPA-12

Sensor controller

- NPN/PNP dual usage input sensor controller
- Provide the solid output contact (250 V 3A, above 100 thousand times)
- Simple installation due to the plug in type



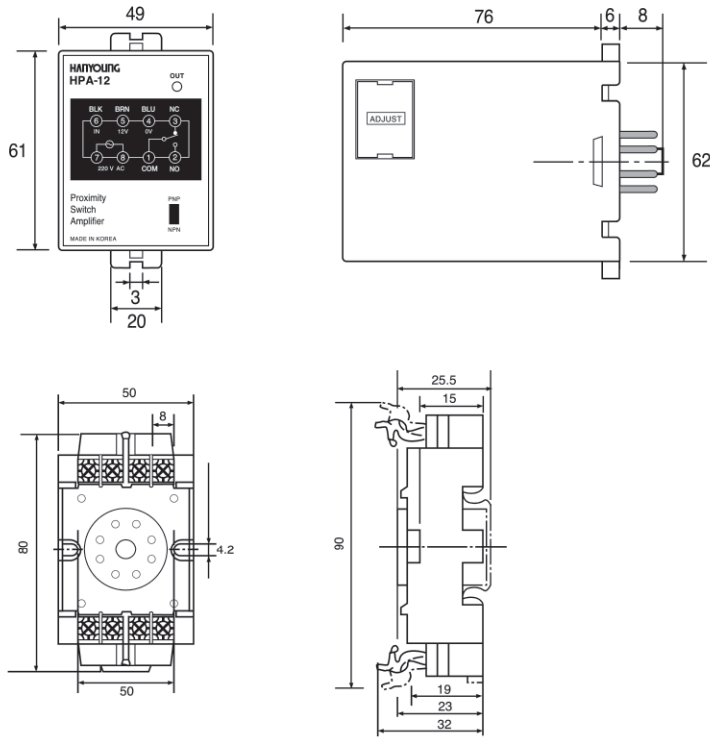
Specification

Power supply voltage	220 V AC ($\pm 10\%$) 60 Hz
Current consumption	Approx. 4 VA
Power for sensor	12 V DC ($\pm 10\%$), Load current: less than 50 mA
Connectable sensor (input)	NPN, PNP transistor output sensor
Control output	Relay contact : 1 c (250 V AC 3 A, resistive load, rated load durability : 100 thousand times)
Response time	Approx. 10 ms
Ambient temperature	$-10 \sim 50\text{ }^{\circ}\text{C}$
Ambient humidity	35 ~ 85 % RH (no icing allowed)
Noise immunity	Power line : 1500 Vp, Pulse width : 0.5 μs (Noise simulator)
Dielectric strength	1500 V AC for 1min between the power and output
Insulation resistance	10 M Ω (500 V DC mega between the power and output)
Vibration resistance	10 – 55 Hz (cycle 1 min), Double amplitude : 0.75 mm, x, y and z each direction for 2 hour (state where power is OFF)
Shock resistance	Durability : 100 m/s ² (approx 10G), 2 times each in X, Y, and Z direction
Function classification	Common
Installation type	Relay socket installation
Weight	Approx. 260 g

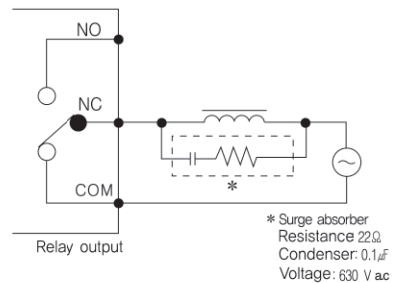
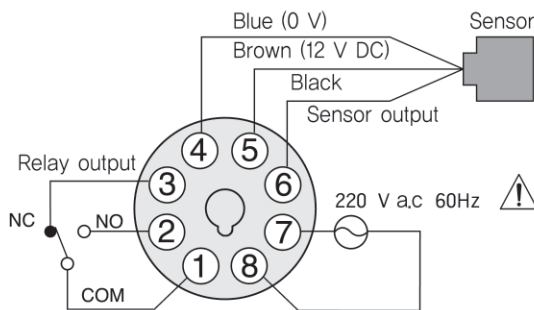
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Photo
Sensor

Dimension and panel cutout (Unit : mm)



Connection diagram



· The controller (HPA-12) for sensor has the output circuit which operates the power relay as amplifying the output of NPN type and PNP type and the power circuit for sensor. If the sensor detects an object, the relay will be operating.

■ About the wiring of the load

· To the both sides of terminals of the Inductive load (motor, solenoid, etc), connect the surge absorber like the right picture then it suppress the noise occurre