PA5 SERIES

SENSOR CONTROLLER

▣Features

- Compact size & high quality.
- Free switching power voltage.
- Built-in time function.
- Contact input & solid-state input.
- DIN rail mounting.
- Selectable input & output by DIP switch.
- High input response.

▣Ordering information

PA 5 — V

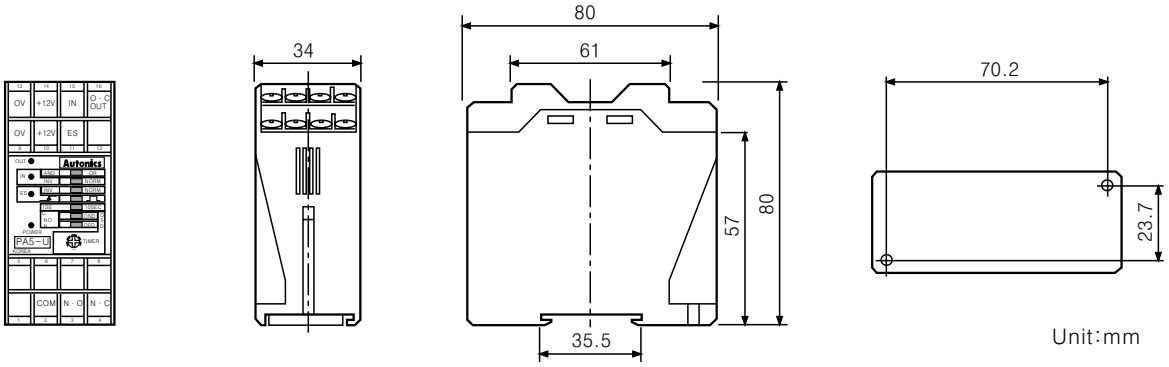
V	General controller
U	Multi-function controller
W	2 chanel controller
5	Multi-function
PA	Power amplifier

▣Specification

Items \ Type / Model		General controller	Multi-function controller	2 chanel controller
		PA5-V	**PA5-U**	**PA5-W**
Power supply		100 to 240VAC ±10% 50/60Hz		
Power for external sensor		12VDC ±10% About 200mA(Built-in short-circuit protection)		
Input(IN)(ES)		Solid-state signal(NPN transister),contact signal		
(IN)(ES)input impedance		10KΩ		
Output	Relay output	250VAC 3A(resistive load)		
	O · C output	NPN open collector output Max. 30VDC 200mA		————
Response time		Relay contact:about 10mS,transister output:50㎲		About 10mS
Timer function		————	OND,OFD,OSD selectable time for the timer 1 to 10sec	————
External synchronous		Have	Have (period, derivative synhcronous)	————
Ambient operting temperature		-10 to +50℃(Non-freezing condition)		
Ambient storage temperature		-25 to +65℃(Non-freezing condition)		
Ambient Humidity		35 to 85% RH		
Dielectric strength		2KVAC for 1 minute between terminals and case		
Vibration		0.75mm amplitude at frequency of 10 to 55Hz in each of X,Y,Z directions for 2 hours		
Service life	Mechanically	Min. 10.000.000 operations		
	Electrically	Min. 100.000 operations at 250VAC 3A		
Insulation resistance		Min. 100MΩ(at 500VAC between terminals and case)		
Weight		About 105g	About 138g	About 108g

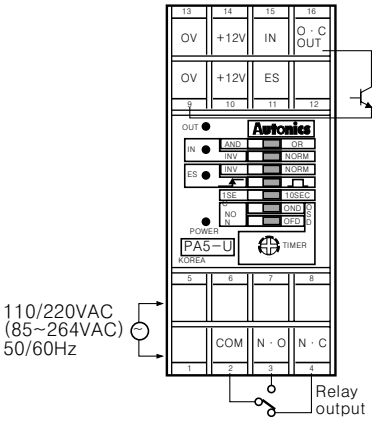
※The weight of above chart is net weight.

▣Dimension



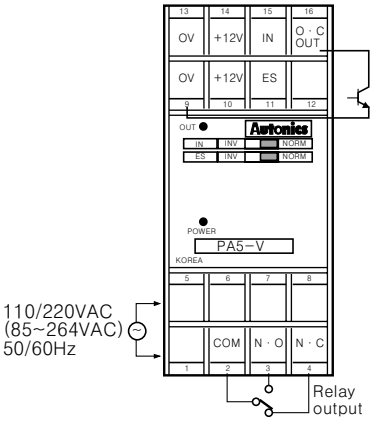
▣Connections

●PA5−U



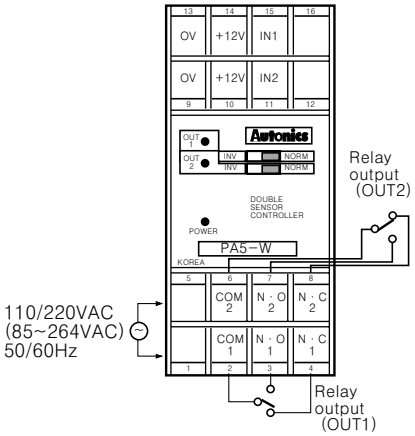
※No connection for 6,7,8,12 terminals

●PA5−V



※No connection for 6,7,8,12 terminals

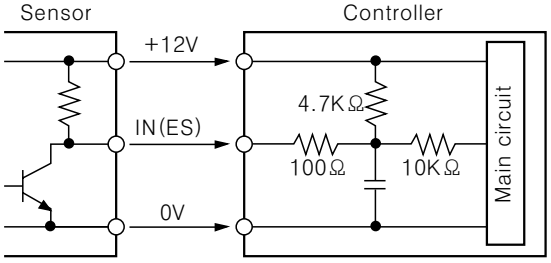
●PA5−W



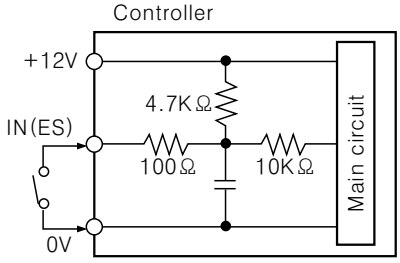
※No connection for 12, 16 terminals

▣Input connection

◎Solid−state input

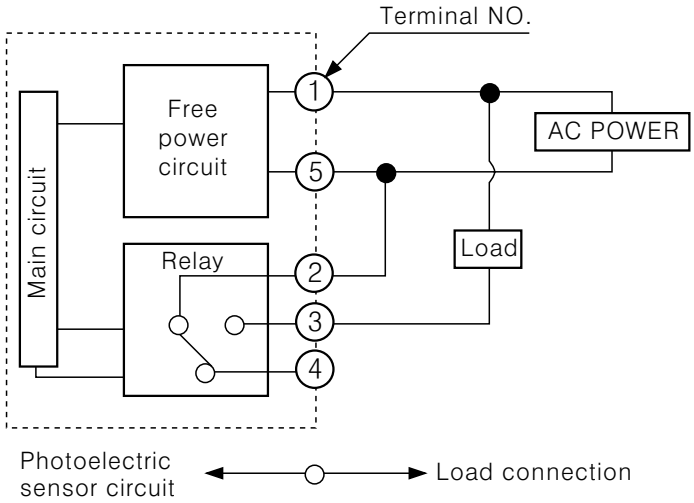


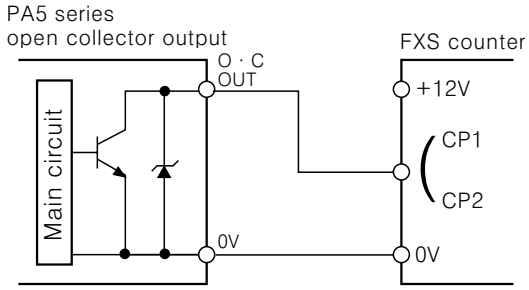
◎Contact input



※Please use a relaiable contacts.

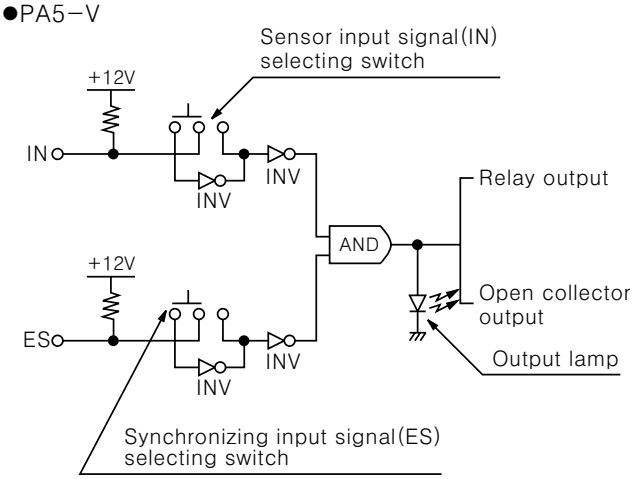
▣Controller output circuit



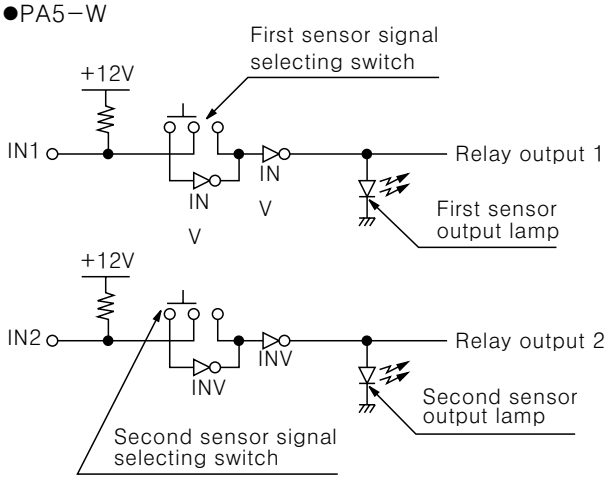


▣Block diagram

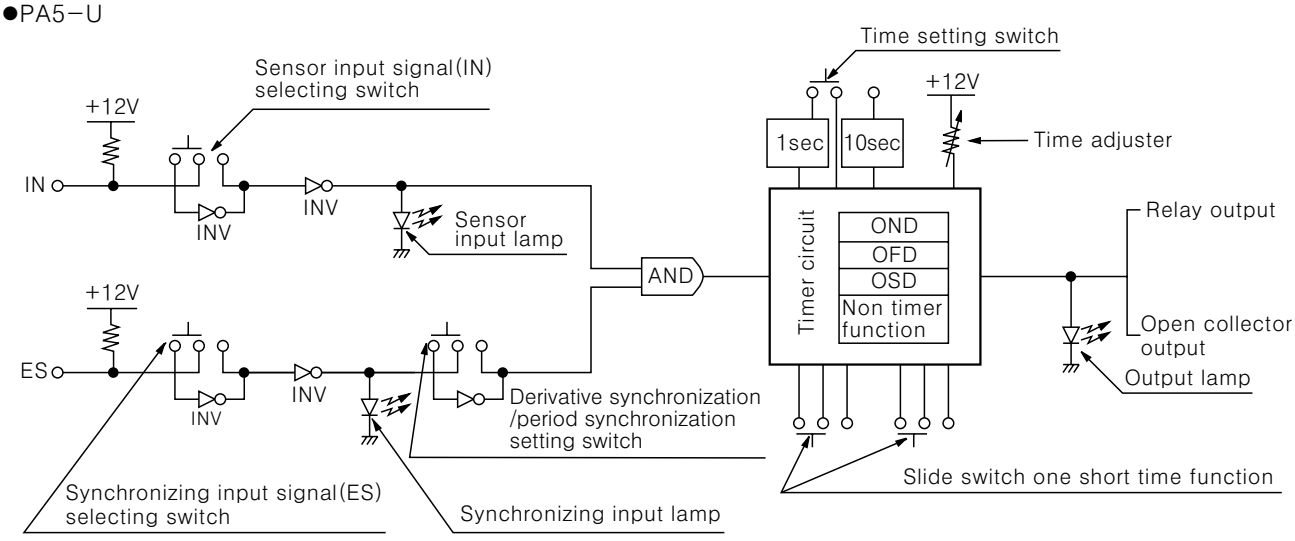
●PA5−V



●PA5−W



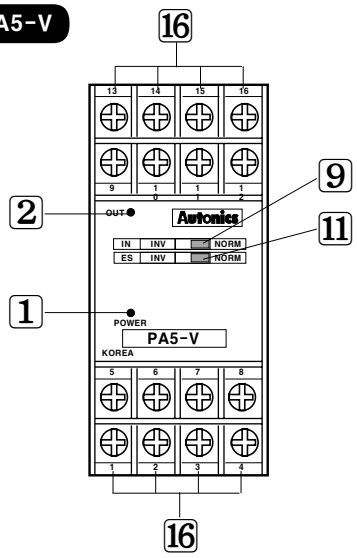
●PA5−U



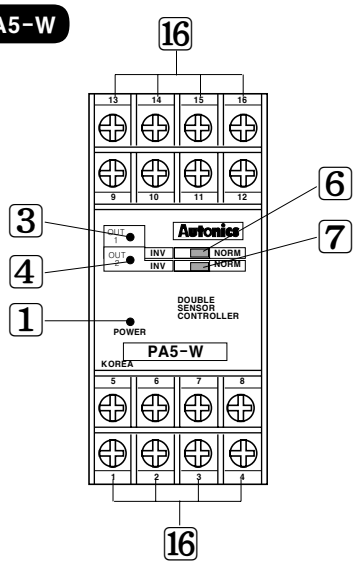
▣Parts name & function

Name plate

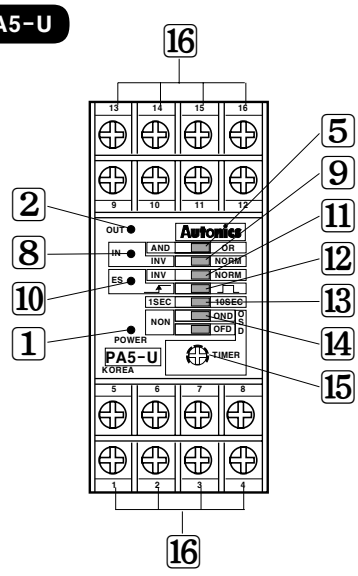
PA5-V



PA5-W



PA5-U



No	Parts name	Function
1	Power lamp	LED turns on when power turns on
2	Output lamp	Indicating output signal
3	First sensor output lamp	
4	Second sensor output lamp	
5	AND/OR selecting switch	Selectable AND or OR
6	First sensor signal selecting switch	INV ▭ NORM INV:LED turns on when input signal is high NORM:LED turns on when input signal is low
7	Second sensor signal selecting switch	
8	Sensor input(IN) lamp	Indication of sensor input signal INV ▭ NORM INV: IN LED turns on when input signal is high NORM: IN LED turns on when input signal is low
9	Sensor input signal (IN) selecting switch	INV ▭ NORM INV: IN LED turns on when input signal is high NORM: IN LED turns on when input signal is low
10	Synchronizing input lamp	Indication of synchronizing input INV ▭ NORM INV:ES LED turns on when synchronizing input is high NORM:ES LED turns on when synchronizing input is low
11	Synchronizing input signal selecting switch	INV ▭ NORM INV:ES LED turns on when synchronizing input is high NORM:ES LED turns on when synchronizing input is low
12	Derivative synchronizing/ period synchronizing selecting switch	Interpretation of synchronizing input signal in a moment and Interpretation of definite period of time ⌐‾ ▭ ‾|_ ⌐‾ :Derivative synchronizing ‾|_ :period synchronizing selecting switch
13	Time setting switch	Switch to set time 1sec ▭ 10sec 1sec:about 40mS to about 1s variable 10sec:about 0.4s to about 10s variable
14	Slide switch of timer function	Switch to select timer function ⓐNon−timer function ⓑON delay(OND) ⓒOFF delay(OFD) ⓓOne short delay(OSD) NON OND OFD OSD
15	Time adjuster	Setting time
16	Terminal	————