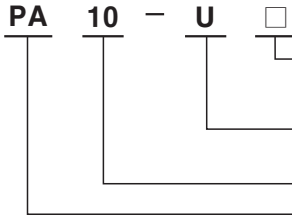


Selection Guide


Multifunctional sensor controller(PA10 series)

Ordering information




	NPN input
P	PNP input
U	High function controller
V	General purpose controller
W	2-channel controller
10	Multi-function
PA	Power Amplifier

Specifications(PA10 Series)

Type		High function controller				
Model		PA10 - U	PA10 - V	PA10 - VP	PA10 - W	PA10 - WP
Appearances & Dimensions		 [W38×H76×L82mm]				
Power supply		100-240VAC 50/60Hz				
Allowable operation voltage		90-110% of rated voltage				
Power consumption		100VAC 50/60Hz : Approx. 7VA, 240VAC 50/60Hz : Approx. 10VA (Condition:12VDC/200mA)				
Power for external sensor		12VDC ±10% Approx. 200mA				
Input(IN1) (IN2)		Selectable NORM/INV. Selectable OR/AND operation for IN1, IN2 input. Selection function for IN2 derivative action.	Selectable NORM/INV. Operation for IN1, IN2 AND.		Selectable NORM/INV. IN1, IN2 individual operation.	
		NPN input	NPN input	PNP input	NPN input	PNP input
Input method		• PA10-U [No voltage input] Impedance at short-circuit:Max. 680Ω, Residual voltage at short-circuit:Max. 0.8V, Impedance at open:Min. 100kΩ • PA10-V/PA10-W [No voltage input] Impedance at short-circuit:Max. 300Ω, Residual voltage at short-circuit:Max. 2V, Impedance at open:Min. 100kΩ • PA10-VP/PA10-WP [Voltage input] Input impedance:5.6kΩ, "H" level voltage:5-30VDC, "L" level voltage:0-2VDC				
Output	Contact output	OUT [250VAC 3A (Resistive load)]			OUT1, OUT2 [250VAC 3A (Resistive load)]	
	Solid-state output	O · C OUT1 O · C OUT2	O · C OUT		—————	
		NPN open collector output Max. 30VDC 200mA				
Response time		Input : Min. 2μs, Relay contact output : Min. 10ms, Transistor output : Min. 0.5μs (When it is encoder mode)				
Time setting function by each mode		• ON-DELAY MODE • OFF-DELAY MODE • ONE-SHOT DELAY MODE • FLICKER MODE • FLICKER ONE-SHOT MODE • LOW-SPEED DETECTION MODE • HIGH-SPEED DETECTION MODE • NORMAL MODE • FLIP-FLOP MODE • ENCODER (MODE 9 to 11)				
Relay life cycle		Min. 10,000,000 times				
		Min. 100,000 times (250VAC 3A resistive load)				

*If the load is connected over 200mA at the sensor output, it may cause malfunction.

Specifications(PA12 Series)

Type		Power Amplifier	
Model		PA-12	
Appearances & Dimensions		 [W50×H80×L70mm]	
Input type		Selectable NPN/PNP	
Power supply		Selectable 110/220VAC 50/60Hz	
Control output	Composition	SPDT (1a 1b)	
	Capacity	250VAC 3A resistive load	
Power for external sensor		12VDC 50mA	
Power consumption		Approx. 4VA	
Input signal	NPN	High level [H] : 7-12VDC, Low level [L] : 0-5VDC	
	PNP	Short-circuit impedance : Max. 1kΩ, Residual voltage : Max. 2VDC Open circuit impedance : Min. 100kΩ	

Connections

