

PWM Controller

Features

Reduces system power consumption and fan noise

For PWM fan speed control, a PWM control circuit needs to be newly designed and configured.

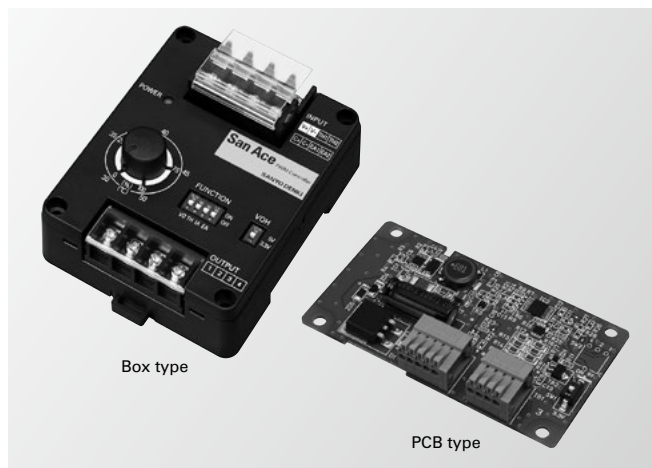
By using this product, however, PWM fans can be fully utilized without the need for preparing new circuits, contributing to reducing the system power consumption and the fan noise.

Can be common-powered by the fan power supply

The controller can be powered by the fan power supply of rated voltage 12, 24, and 48 VDC, and no separate supply is required.

Maximum of four fans connectable

Up to four PWM fans can be connected and controlled.



Specifications

Box type

Model no.		9PC8666X-S001	9PC8666X-S101
Size [mm]		86 (H) × 66 (W) × 38 (D)	
Rated voltage [V]		12/24/48	
Power consumption [W]		0.2 ⁽¹⁾	
Operating temperature [°C]		-20 to +70	
Input terminal	Input voltage range [V] (V+, V-)	7 to 60	
	Control voltage range [V]	0 to 5.5	
Output terminal	PWM signal output	V _{OH} (high level voltage): 3.3 or 5 VDC selectable	
	PWM frequency [kHz]	25	1
	Output current	20 mA max. (total sum of 4 terminals)	
	Output breakdown voltage [V]	6.5	
	No. of connectable fans	Up to 4 fans	
Control functions ⁽²⁾		Voltage control, Internal adjustment (variable resistor) control, External adjustment (variable resistor) control ⁽³⁾ , Thermistor control ⁽³⁾	
Mounting method		DIN rail mounting or screw mounting (M3 screws, recommended tightening torque 0.5 N·m max.)	
Mass [g]		110	
Material		Case: Plastic	

PCB type

Model no.		9PC8045D-V001	9PC8045D-R001	9PC8045D-T001	9PC8045D-V101	9PC8045D-R101	9PC8045D-T101
Size [mm]		80 (H) × 45 (W) × 17 (D)					
Rated voltage [V]		12/24/48					
Power consumption [W]		0.2 ⁽¹⁾					
Operating temperature [°C]		-20 to +70					
Input terminal	Input voltage range [V] (V+, V-)	7 to 60					
	Control voltage range [V]	0 to 5.5					
Output terminal	PWM signal output	V _{OH} (high level voltage): 3.3 or 5 VDC selectable					
	PWM frequency [kHz]	25			1		
	Output current	20 mA max. (total sum of 4 terminals)					
	Output breakdown voltage [V]	6.5					
	No. of connectable fans	Up to 4 fans					
Control functions		Voltage control	Variable resistor control ⁽³⁾	Thermistor control ⁽³⁾	Voltage control	Variable resistor control ⁽³⁾	Thermistor control ⁽³⁾
Mounting method		Screw mounting (M3 screws, recommended tightening torque 0.5 N·m max.)					
Mass [g]		27					
Material		PCB: FR-4					

(1) When output terminals are turned on. (2) Control functions are mutually exclusive for Box type.

(3) Variable resistor and thermistor are not supplied with the controller and need to be prepared separately.

Note: Be noted that if applied input voltage or frequency is out of range of the connected fan, how the fan speed responds to the PWM duty cycle may be altered.