



San Ace C133

Centrifugal Fan

Centrifugal Fan 133mm

Features

Large air flow and high static pressure

- Maximum air flow : 6.39 m³/min
- Maximum static pressure : 395 Pa

Energy-saving design

- Power consumption: 26.4 W

Low noise

- Sound Pressure Level: 61dB(A)



φ133mm×91mm

Specifications Note 3)

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM Duty Cycle [%] <small>Note 1,2)</small>	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Air Flow		Static Pressure		SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]
							[m ³ /min]	[CFM]	[Pa]	[inchH ₂ O]			
9TJ48P0H01	48	36 to 72	100	0.55	26.4	4,150	6.39	225	395	1.59	61	-10 to 70	40,000

Note 1 : PWM Frequency : 25kHz

Note 2 : Fan does not rotate when PWB duty cycle is 0%.

Note 3 : When our inletnozzle [Option (Model : 109-1069)] is mounted.

Common Specifications

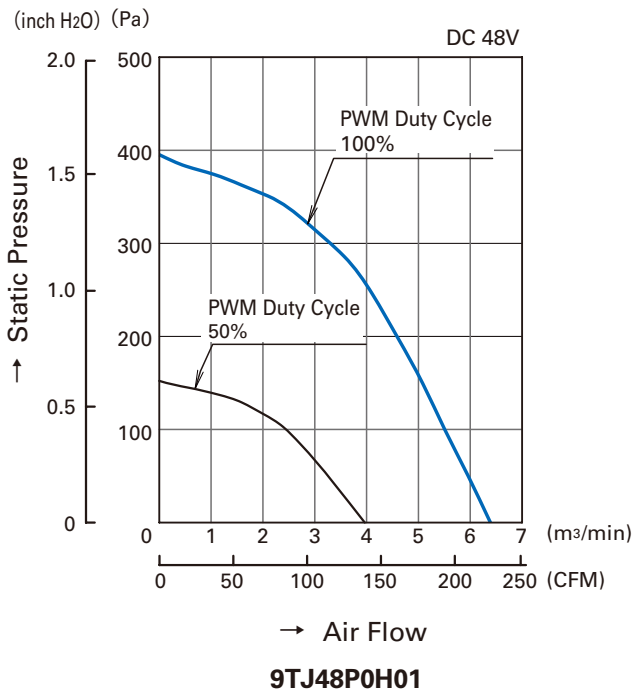
- Material Frame: Aluminum , Impeller: Plastics (Flammability: UL94V-1)
- Life Expectancy Varies for each model
(L10: Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Motor Protection System Current blocking function and Reverse polarity protection
- Dielectric Strength 50/60 Hz, 500VAC, 1 minute (between lead conductor and frame)
- Sound Pressure Level (SPL) Expressed as the value at 1m from air inlet side
- Operating Temperature Varies for each model (Non-condensing)
- Lead Wire ⊕red ⊖black Sensor: yellow Control: brown
- Mass 660g

133mm

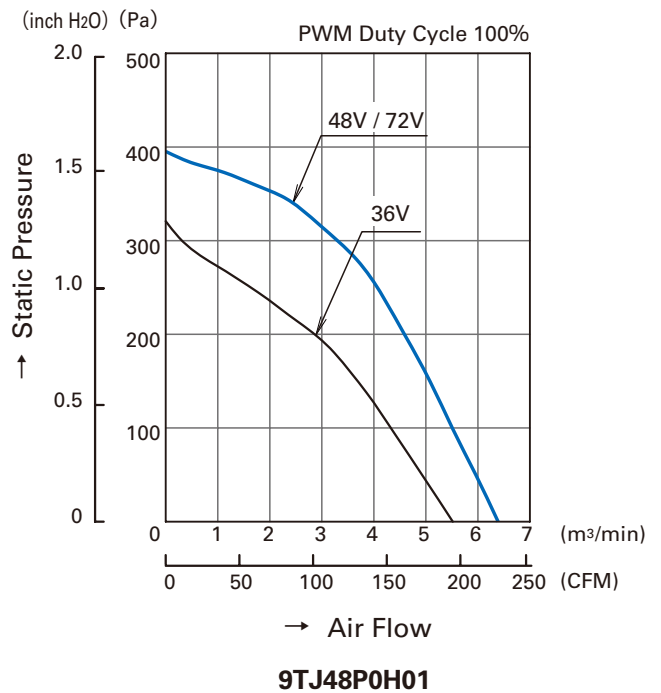
SanAce C133

Air Flow and Static Pressure Characteristics

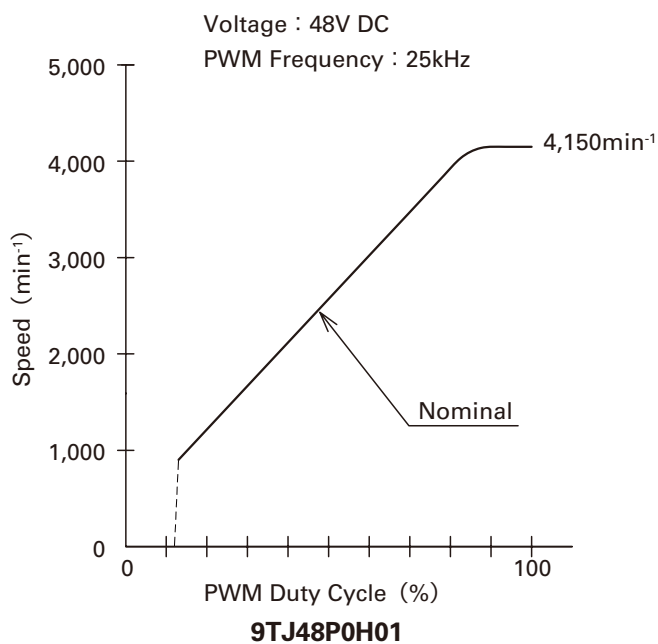
- PWM Duty Cycle



- Operating Voltage Range

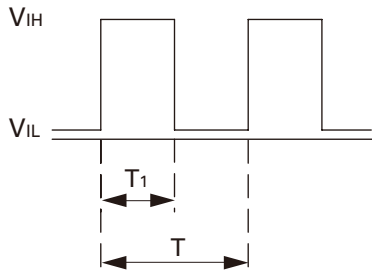


PWM Duty - Speed Characteristics Example



PWM Input Signal Example

Input Signal Wave Form



$V_{IH}=4.75V$ to $5.25V$

$V_{IL}=0V$ to $0.4V$

PWM Duty Cycle (%) = $\frac{T_1}{T} \times 100$

PWM Frequency 25 (kHz) = $\frac{1}{T}$

Source Current : 2mA Max. at control voltage 0V

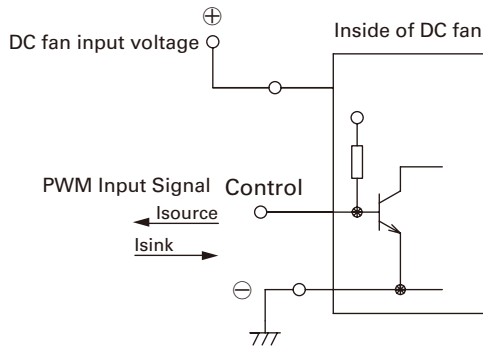
Sink Current : 1mA Max. at control voltage 5.25V

Control Terminal Voltage : 5.25V Max. (Open Circuit)

When the control lead wire is no connecting, the speed is the same speed as at 100% of PWM cycle.

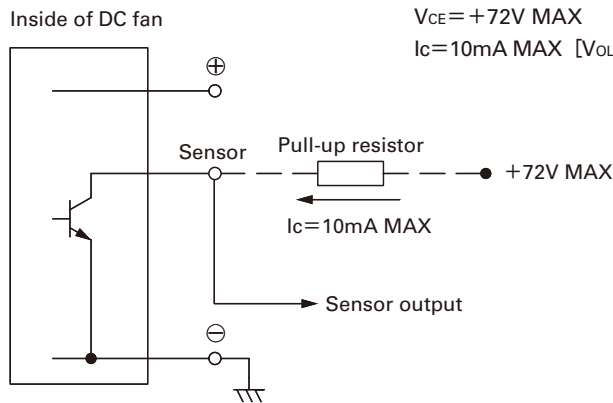
This fan speed should be controlled by PWM input signal of either TTL input or open collector, drain input.

Connection Schematic



Specifications for Pulse Sensors

Output circuit : Open collector



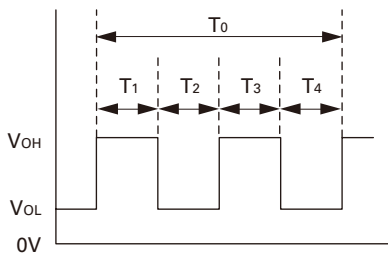
$V_{CE}=+72V$ MAX

$I_c=10mA$ MAX [$V_{OL}=V_{CE} (SAT) =0.4V$ MAX]

Output waveform (Need pull-up resistor)

In case of steady running

(One revolution)



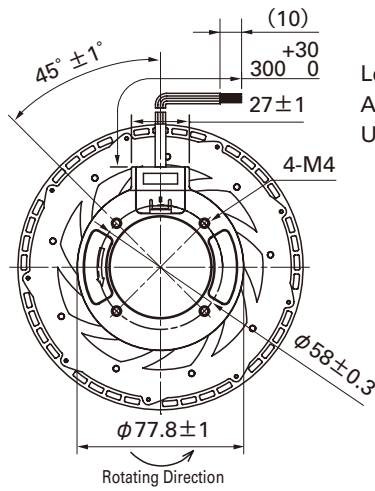
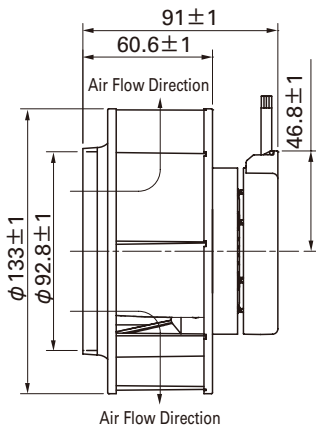
$T_{1\sim 4} \doteq (1/4) T_0$

$T_{1\sim 4} \doteq (1/4) T_0 = 60/4N$ (sec)

$N = \text{Fan speed (min}^{-1}\text{)}$

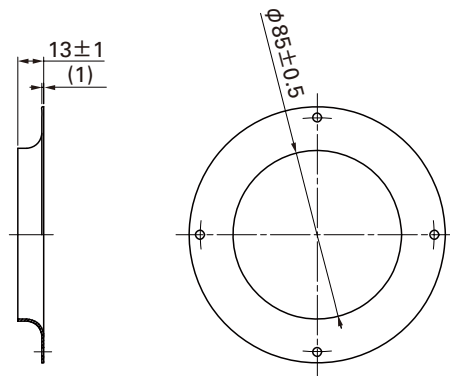
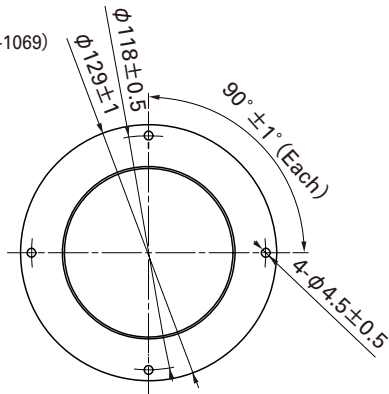
Dimensions (unit : mm)

Fan



Lead Wire
AWG24
UL1430

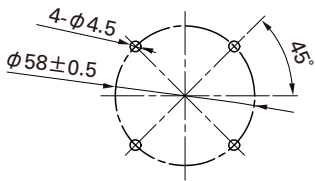
Inlet nozzle
(Model No. : 109-1069)



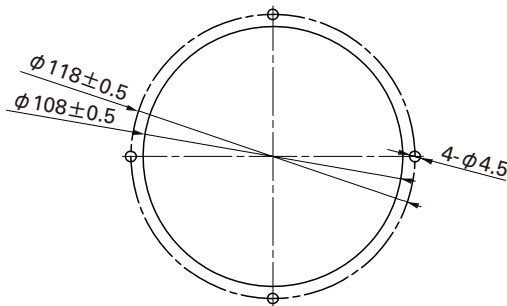
Inletnozzle: Nozzle mounted in fan inlet side to adjust the flow of introduced air

Reference dimension of mounting holes and vent opening (unit : mm)

Fan side



Inlet nozzle side



Reference diagram for mounting (unit : mm)

