

San Ace 92L

LG type

High Air Flow Long Life Fan

■ Features

Long Life

The San Ace 92L LG type has an expected life of 180,000 hours (approximately 20 years), 1.8 times that of our conventional long life fan,*¹ making this fan ideal for equipment that must operate without maintenance for extended periods.

High Air Flow and High Static Pressure

The maximum air flow of the San Ace 92L LG type is 1.3 times and its maximum static pressure is 1.6 times that of our conventional long life fan.*¹

Low Power Consumption

The power consumption of this new fan is about 30% lower than that of our conventional long life fan.*²

Low Noise

Its sound pressure level is about 2 dB(A) lower than that of our conventional long life fan.*²



*¹ Specification of Model No. 9LG0912P4J001. Our conventional long life fan is 92 x 92 x 25 mm "San Ace 92L", Model No. 109L0912S401.

*² Specification of Model No. 9LG0912P4S001. Our conventional long life fan is 92 x 92 x 25 mm "San Ace 92L", Model No. 109L0912S401.

92×92×25mm

■ Specifications

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM Duty Cycle [%] Note1,2)	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Max. Air Flow [m ³ /min] [CFM]	Max. Static Pressure [Pa] [inch H ₂ O]	SPL [dB(A)]	Operating Temperature [C]	Expected Life [h]
9LG0912P4J001	12	10.8 to 13.2	100	0.42	5.04	5,000	2.20 77.7	105 0.42	44	-10 to +70	180,000
9LG0912P4G001			100	0.30	3.60	4,400	1.93 68.2	81 0.33	40		
9LG0912P4S001			100	0.22	2.64	3,850	1.69 59.7	62.1 0.25	37		
9LG0912P4H001			100	0.15	1.80	3,150	1.38 48.7	41.6 0.17	32		
9LG0924P4J001	24	21.6 to 26.4	100	0.21	5.04	5,000	2.20 77.7	105 0.42	44		
9LG0924P4G001			100	0.15	3.60	4,400	1.93 68.2	81 0.33	40		
9LG0924P4S001			100	0.11	2.64	3,850	1.69 59.7	62.1 0.25	37		
9LG0924P4H001			100	0.07	1.68	3,150	1.38 48.7	41.6 0.17	32		

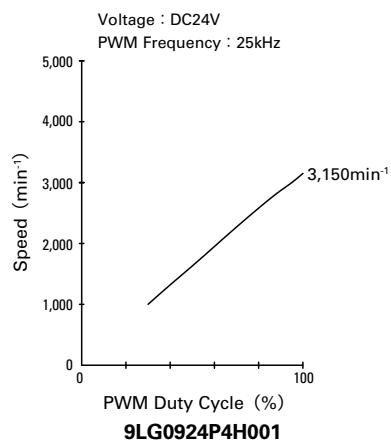
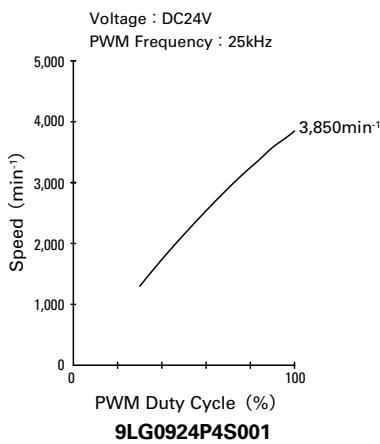
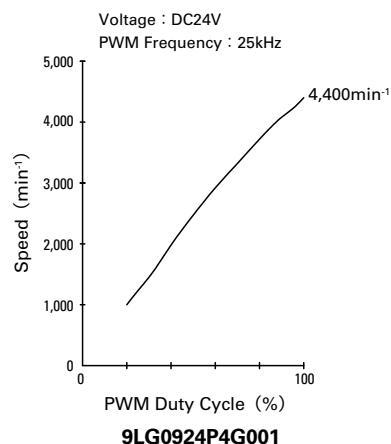
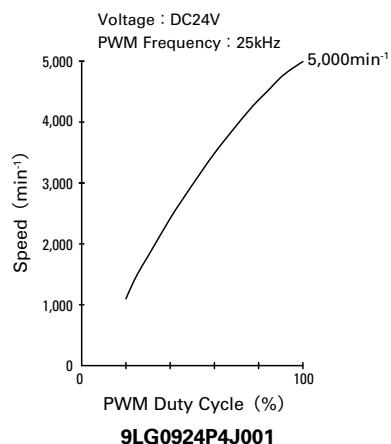
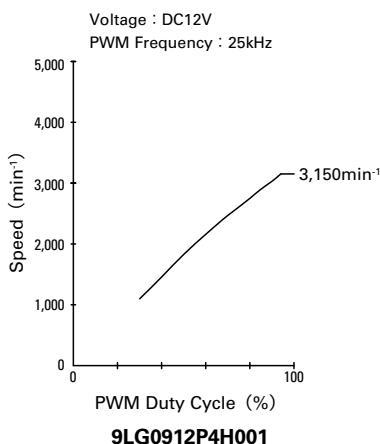
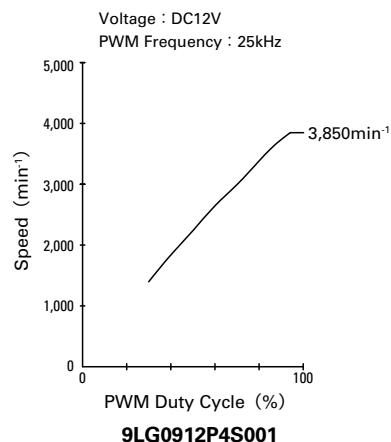
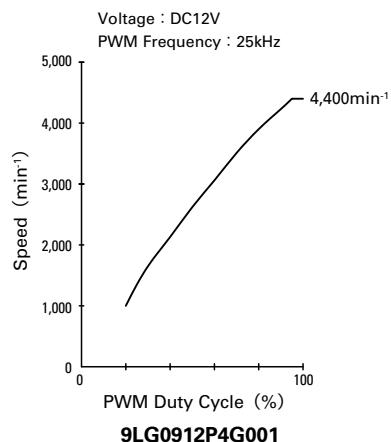
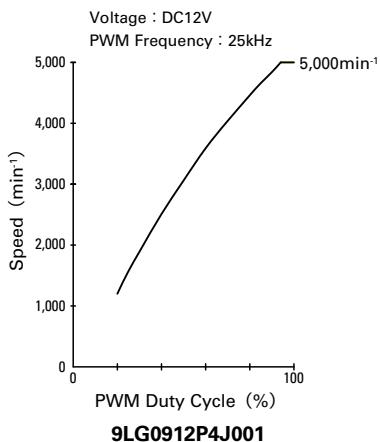
Note1: PWM Frequency : 25kHz

Note2: Fans do not rotate when PWM duty cycle is 0%.

■ Common Specifications

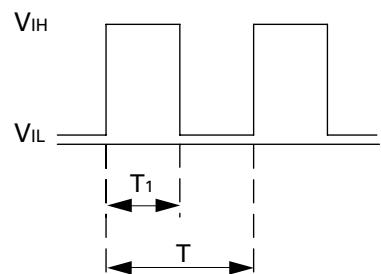
- Material Frame : Aluminum, Impeller : Plastics (Flammability: UL94V-1)
- Expected Life Varies for each model
(L10: Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Motor Protection System Current blocking function and Reverse polarity protection
- Dielectric Strength 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)
- Storage Temperature -30°C to +70°C (Non-Condensing)
- Lead Wire ⊕Red ⊖Black Sensor: Yellow Control: Brown
- Mass Approx. 150g

PWM Duty - Speed Characteristics Example



PWM Input Signal Example

Input Signal Waveform



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

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

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

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

Source Current : 1mA Max. at control voltage 0V

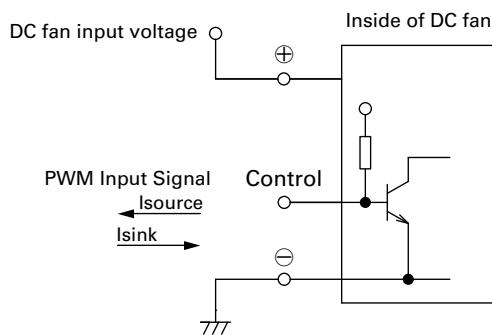
Sink Current : 1mA Max. at control voltage 5.25V

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

When the control lead wire is open,
the fan speed is the same as the one at 100% PWM duty cycle.

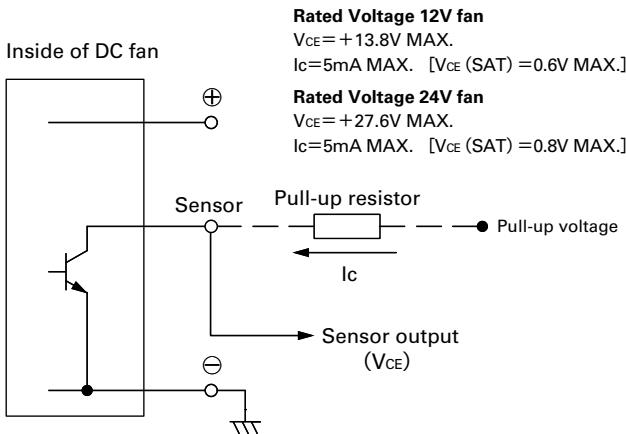
Either TTL input, open collector or open drain can be used for PWM control input signal.

Example of Connection Schematic



Specifications for Pulse Sensors

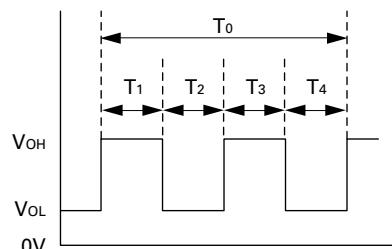
Output Circuit : Open Collector



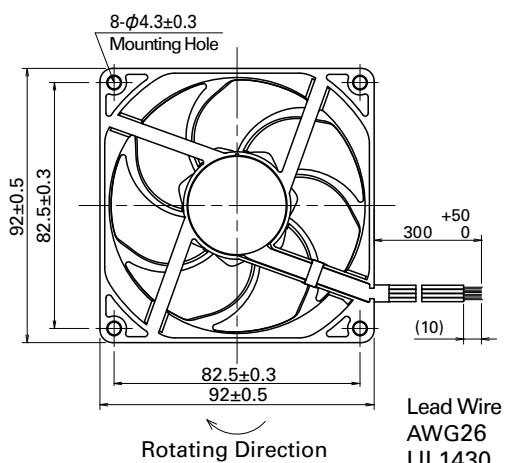
Output Waveform (Need pull-up resistor)

In case of steady running

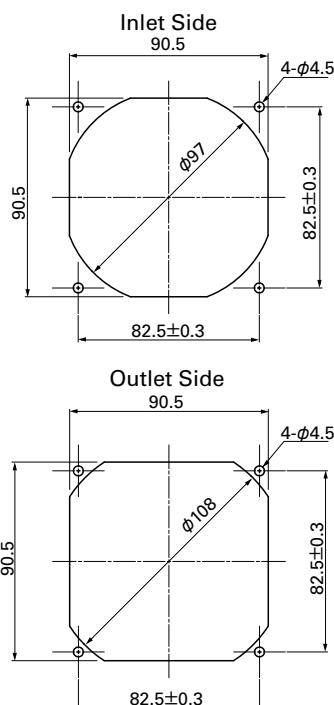
(One revolution)



Dimensions (unit : mm)



Reference Dimension of Mounting Holes and Vent Opening (unit : mm)



Notice

- The products shown in the catalog are subject to Japanese Export Control Law. Diversion contrary to the law of exporting country is prohibited.
- To protect against electrolytic corrosion that may occur in locations with strong electromagnetic noise, we provide fans that are unaffected by electrolytic corrosion.

SANYO DENKI CO., LTD.

1-15-1, Kita-otsuka, Toshima-ku, Tokyo 170-8451, Japan. PHONE +81 3 3917 5151

<http://www.sanyodenki.com>

The names of companies and/or their products specified in this catalog are the trade names, and/or trademarks and/or registered trademarks of such respective companies. "San Ace" is a trademark of SANYO DENKI CO., LTD.

Specifications are subject to change without notice.

CATALOG NO. C1021B001 '13.6