92mm sq.

San Ace 92AD

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0), Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃ , rated voltage,and continuously run in a free air state)
- Motor Construction ····· Brushless DC motor
- Motor Protection System Burnout protection at locked rotor condition
- Dielectric Strength ····· 50/60 Hz, 1,500 VAC, 1 minute (between input terminal and frame, and between sensor output and frame)
- Insulation Resistance ····· 10MΩ or more at 500VDC megger (between lead conductor and frame)
- Sound Pressure Level (SPL) ··· Expressed as the value at 1m from air inlet side
- Storage Temperature ····· −30℃ to+75℃ (Non-condensing)

* Do not weld directly onto AC input terminals.

92×92×38mm (Mass : 250g) 9AD type

Specifications

The model no. below has **ribs and no sensors**. For models without ribs, append "1" to the model no.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Frequency(Note) [Hz]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
9AD0901H12	100 to 240	90 to 264	50/60	0.08	4.5	3,850	1.50	53.0	90	0.36	40	−20 to +75	60,000/60℃
9AD0901M12				0.06	3.0	3,100	1.18	41.7	56	0.22	33		

Note: 50/60 Hz compatible.

The model no. below has **ribs and low-speed sensors**. For models without ribs, append "1" to the model no.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Frequency(Note) [Hz]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
9AD0901H1H	100 to 240	90 to 264	50/60	0.08	4.5	3,850	1.50	53.0	90	0.36	40	−20 to +75	60,000/60℃
9AD0901M1H				0.06	3.0	3,100	1.18	41.7	56	0.22	33		

Note: 50/60 Hz compatible.

Overheating protection function

Protection Functions:

If the fan blades are restricted, an overcurrent occurs and leads to a rise in the fan coil temperature. This can result in reduced performance, damage, or a fire. To prevent this from occurring, SANYO DENKI's fans incorporate an overheating protection function.

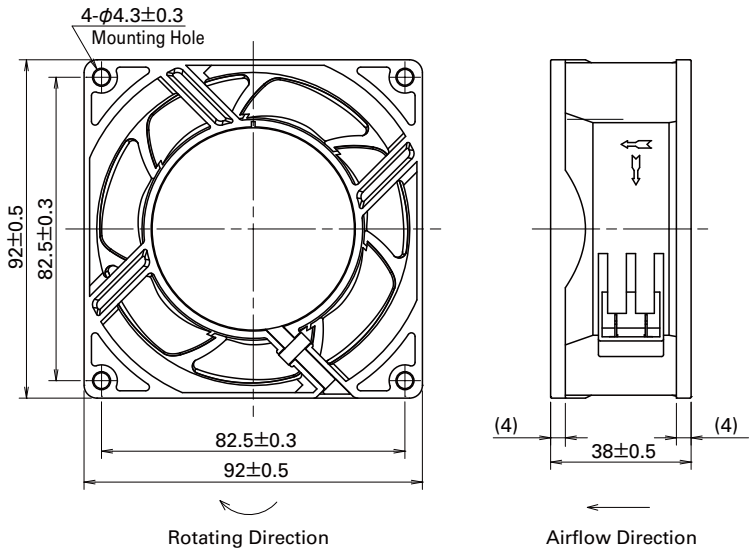
Burnout protection function at locked rotor condition

● Current cutoff system (ACDC fan only)

If the fan blades are restricted, the coil current is cut off at regular cycles to prevent overheating of the coil. When the hindrance is removed, the fan restarts automatically.

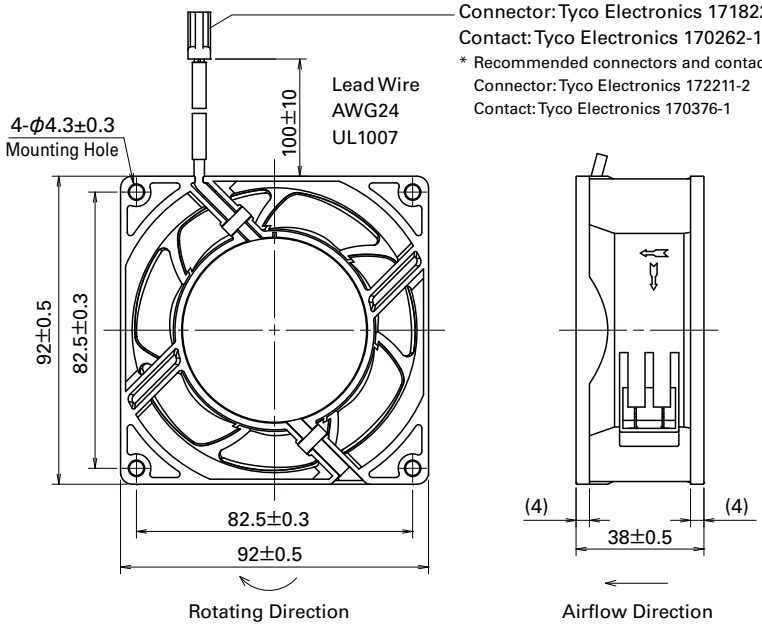
Dimensions (unit: mm) (With ribs)

without Sensor

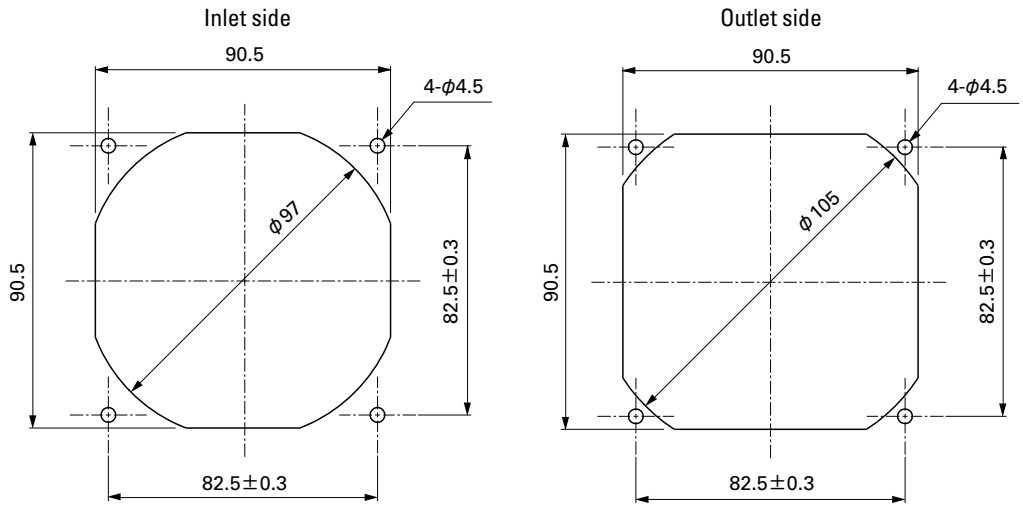


with Low-speed sensor

Connector: Tyco Electronics 171822-2 (Pin1 Sensor output: Yellow Pin2 –: Black)
Contact: Tyco Electronics 170262-1
* Recommended connectors and contacts are listed below.
Connector: Tyco Electronics 172211-2
Contact: Tyco Electronics 170376-1



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



92mm sq.

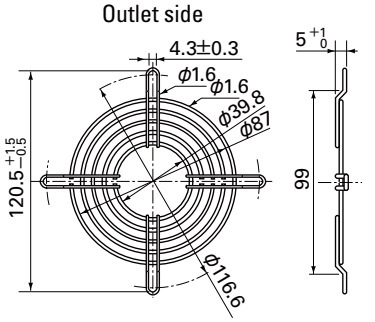
San Ace 92AD

92×92×38mm 〔Mass：250g〕

Options (unit: mm)

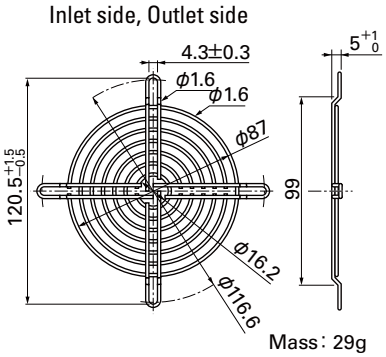
Finger Guards

Model：109-099C　Surface treatment：Nickel-chrome plating (silver)　Color



Mass：22g

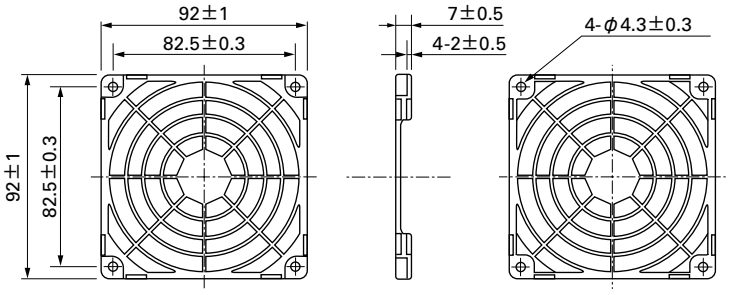
Model：109-099E　Surface treatment：Nickel-chrome plating (silver)　Color
　　：109-099H　　：Cation electropainting (black)



Mass：29g

Resin Finger Guards

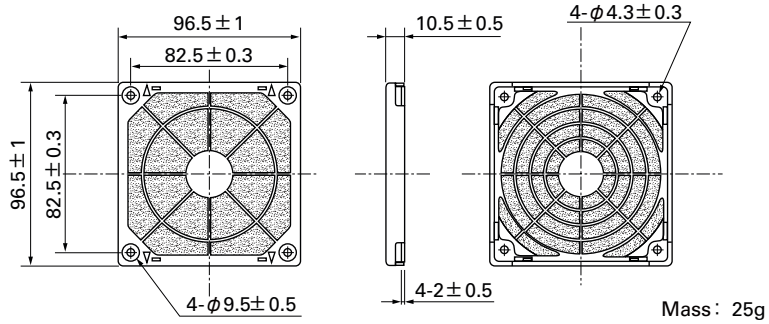
Model：109-1001G



Mass：12g

Resin Filter Kits

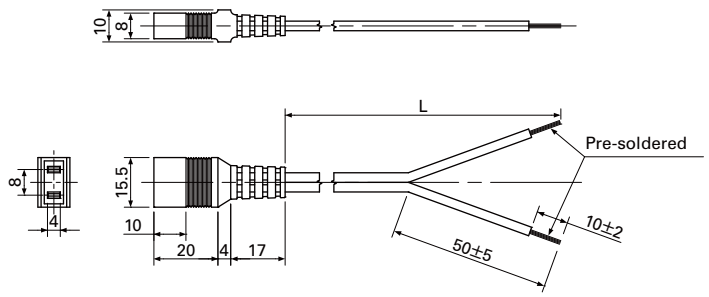
Model: 109-1001F13 (13PPI), 109-1001F20 (20PPI), 109-1001F30 (30PPI), 109-1001F40 (40PPI)



Mass：25g

Plug Cord

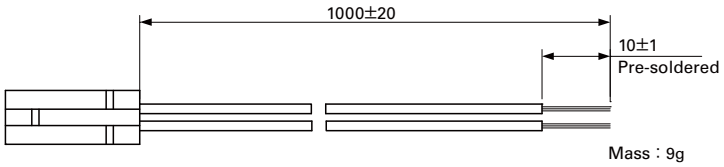
(Products compliant with Electrical Appliance and Material Safety Law, UL/CSA [c-UL] CERTIFIED)
UL FILE No. E43202
Model：489-1635-L10/489-1635-L21



Model	Power cord length (L) [mm]	Mass [g]
489-1635-L10	1,000	38
489-1635-L21	2,100	74

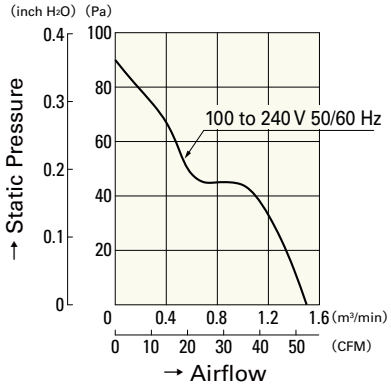
Wiring Harness for Sensor

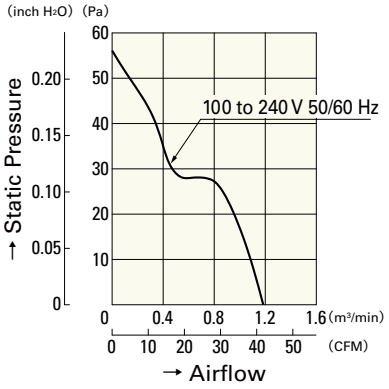
Model: 489-1636



Mass：9g

Airflow - Static Pressure Characteristics

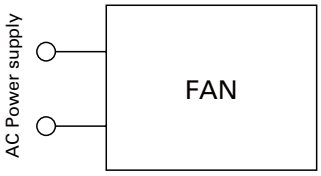




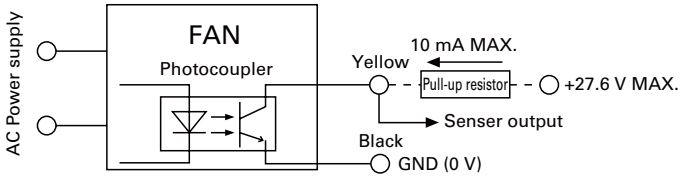
9AD0901H12	**9AD0901M12**
9AD0901H1H	**9AD0901M1H**

Wiring Diagram

Standard

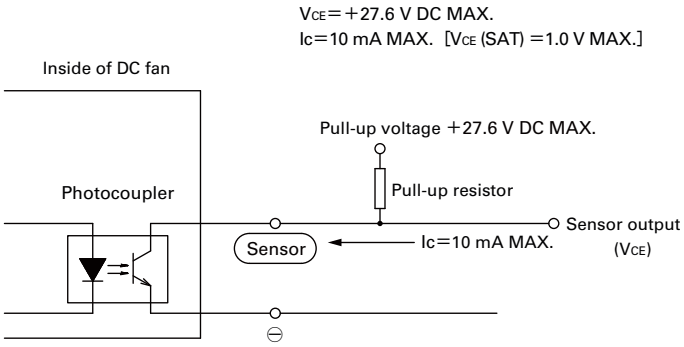


with Sensor



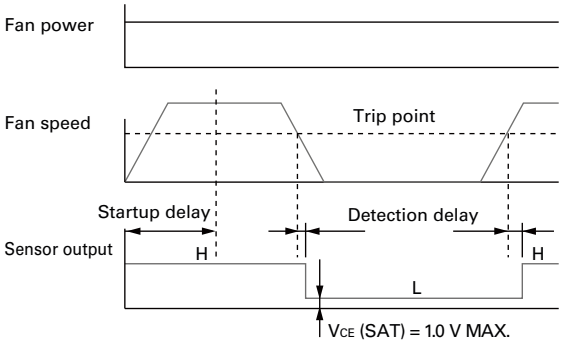
Specifications for Low-speed Sensors

Typical standard model: 9AD0901H1H
Output circuit: Open collector

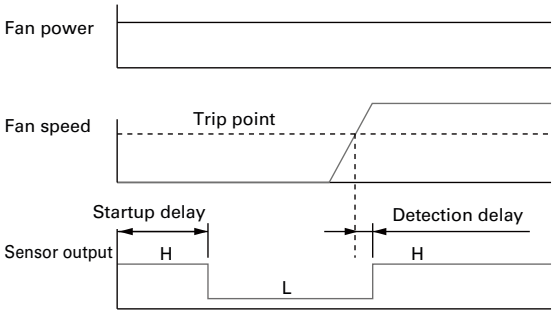


Sensor scheme

Example 1: when steady running



Example 2: when the rotor is locked when the fan motor is turned on and released after the start-up delay time.



9AD0901H1H
Startup delay: 18±3 sec.
Detection delay: 3 sec. MAX.
Trip point: 1,700 min^{-1}

9AD0901M1H
Startup delay: 36±3 sec.
Detection delay: 3 sec. MAX.
Trip point: 850 min^{-1}