

**120**mm sq.**San Ace 120AD****General Specifications**

- Material ..... Frame: Plastics (Flammability: UL94V-0),  
Impeller: Plastics (Flammability: UL94V-1)
  - Expected Life ..... Refer to specifications (L10:Survival rate: 90% at 60°C ,  
rated voltage,and continuously run in a free air state)
  - Storage Temperature ..... -30°C to +75°C (Non-condensing)
- \* Do not weld directly onto AC input terminals.

**120×120×38mm** [Mass : 290g] **9AD type****Specifications**

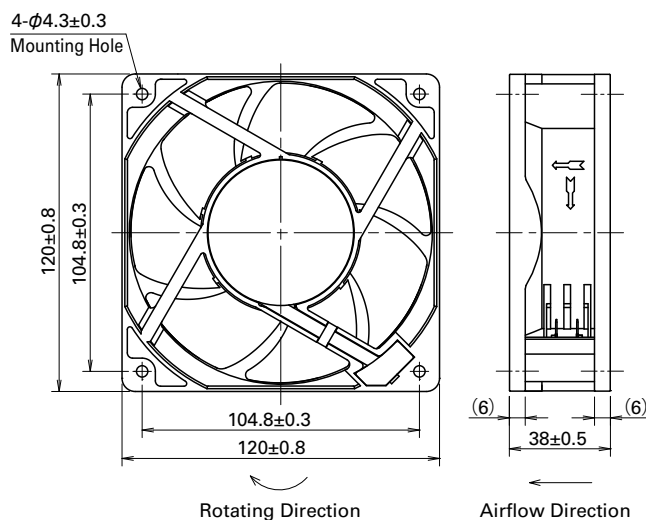
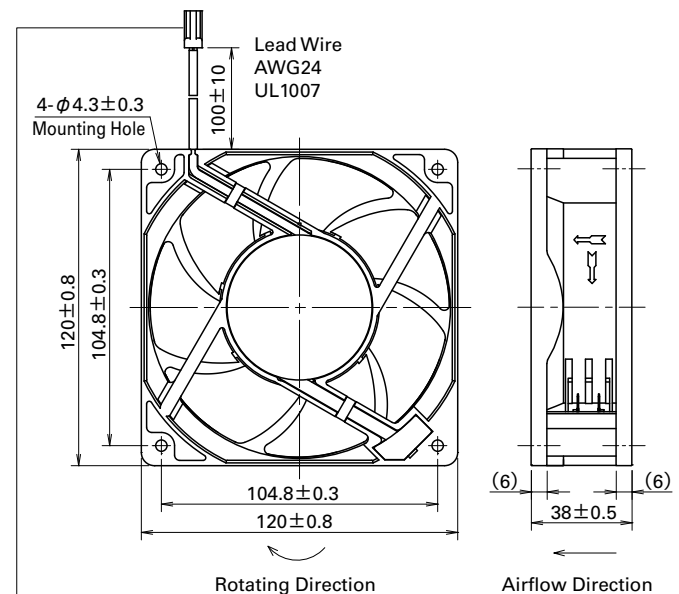
The model no. below has **ribs and no sensors**. For models without ribs, append "1" to the model no.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Frequency [Hz]	Rated Current [A]	Rated Input [W]	Rated Speed [min <sup>-1</sup> ]	Max. Airflow [m <sup>3</sup> /min] [CFM]	Max. Static Pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB(A)]	Operating Temperature [°C]	Expected Life [h]
<b>9AD1201H12</b>	100 to 240	90 to 264	50/60	0.08	4.4	3,250	3.0 106	84 0.34	42	-20 to +75	60,000/60°C

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

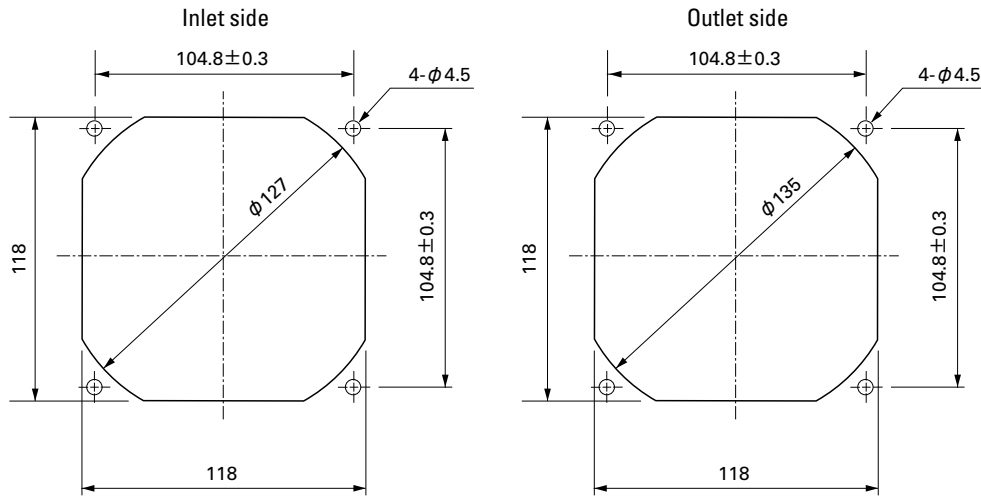
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<b>9AD1201H1H</b>	100 to 240	90 to 264	50/60	0.08	4.4	3,250	3.0 106	84 0.34	42	-20 to +75	60,000/60°C

- Set Models** Fan, finger guard, plug cord, screws, etc. can be purchased in one package.  
For details, please refer to pp. 453 to 456.

**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

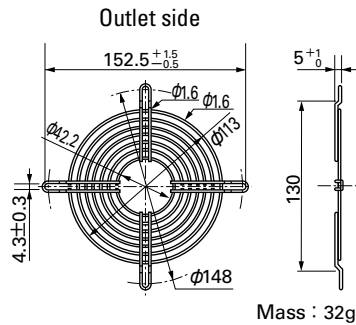
## Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



## Options (unit: mm)

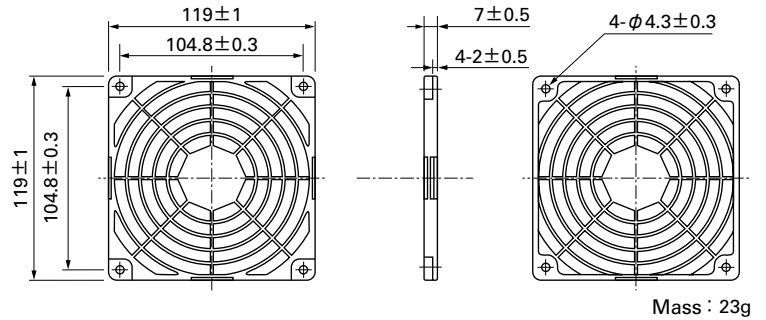
### Finger Guards

Model : 109-019C Surface treatment : Nickel-chrome plating (silver) Color  
: 109-019H : Cation electropainting (black)

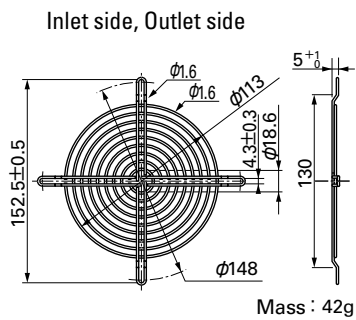


### Resin Finger Guards

Model : 109-1000G

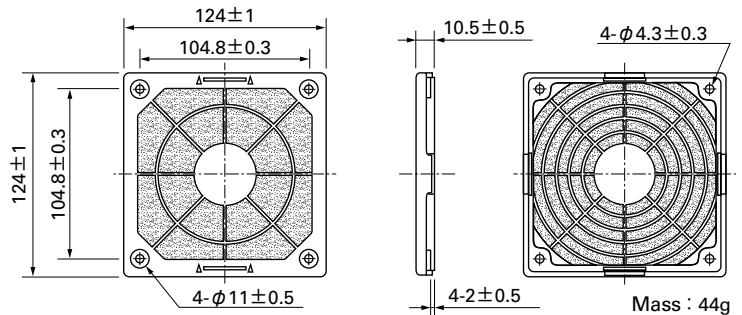


Model : 109-019E Surface treatment : Nickel-chrome plating (silver) Color  
: 109-019K : Cation electropainting (black)



### Resin Filter Kits

Model: 109-1000F13 (13PPI), 109-1000F20 (20PPI), 109-1000F30 (30PPI), 109-1000F40 (40PPI)



120mm sq.

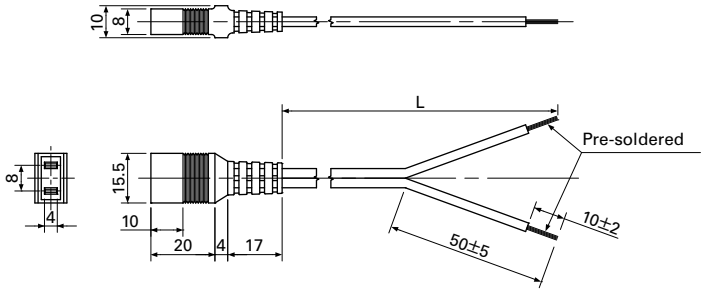
# San Ace 120AD

120×120×38mm [Mass : 290g]

## Options (unit: mm)

### Plug Cord

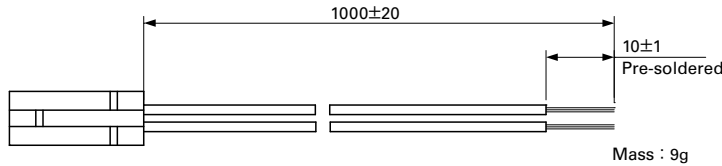
(Products compliant with Electrical Appliance and Material Safety Law, UL/CSA [c-UL] CERTIFIED)  
UL FILE No. E43202  
Model : 489-1635-L10/489-1635-L21



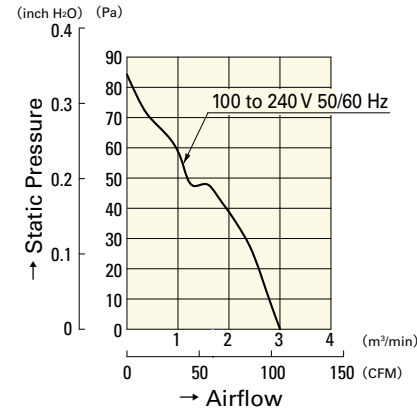
Model	Power cord length (L) [mm]	Mass [g]
489-1635-L10	1,000	38
489-1635-L21	2,100	74

### Wiring Harness for Sensor

Model: 489-1636



## Airflow - Static Pressure Characteristics

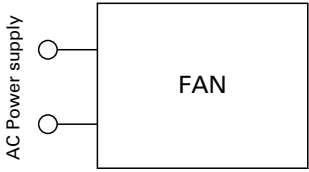


9AD1201H12

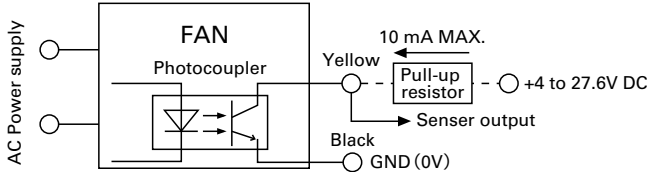
9AD1201H1H

■ **Wiring Diagram**

**without Sensor**



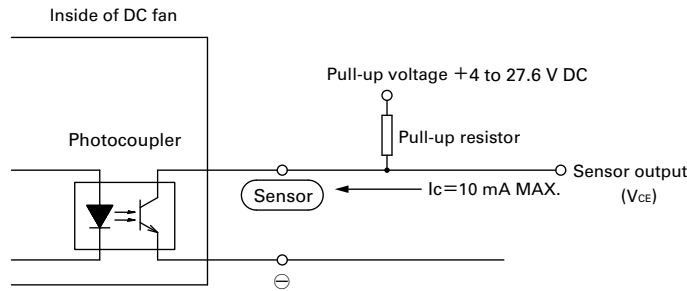
**with Low-speed sensor**



■ **Specifications for Low-speed Sensors**

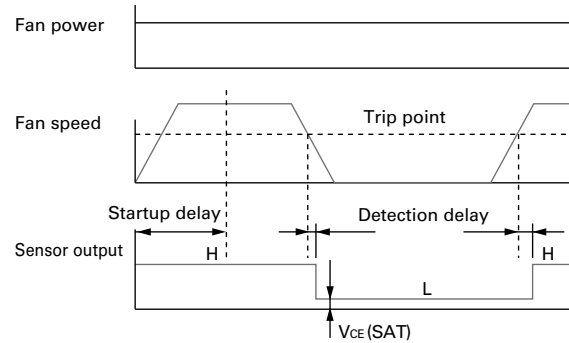
Model No.: 9AD1201H1H  
Output circuit: Open collector

$V_{CE} = +27.6 \text{ V DC MAX.}$   
 $I_c = 10 \text{ mA MAX. [} V_{CE(SAT)} = 1.0 \text{ V MAX.]}$

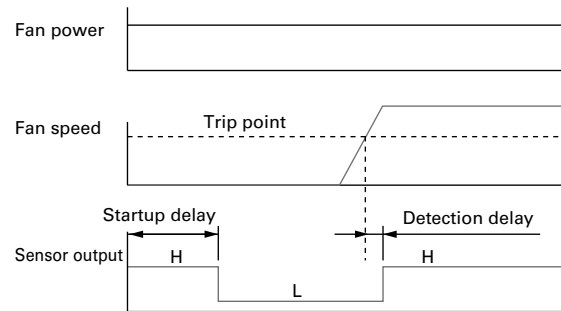


**Sensor scheme**

**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.**



Startup delay:  $18 \pm 3 \text{ s}$   
Detection delay:  $3 \text{ s MAX.}$   
Trip point:  $1,700 \text{ min}^{-1}$