

MDS Series**High-Performance Models**
 ϕ **172**mm-51mm
**Materials**

Frame : Die Cast Aluminum

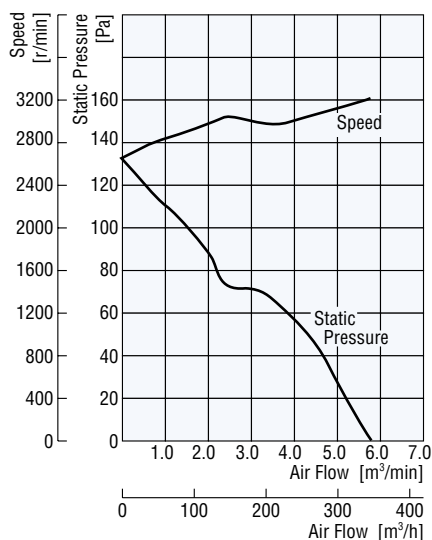
Blades : Resin

Flammability Grade: V-O

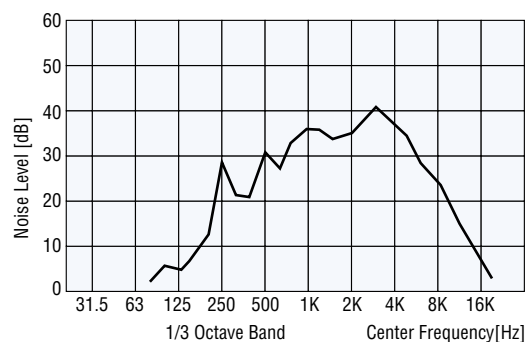
Specifications

Model	Rated Voltage DC V	Rated Current A	Rated Speed r/min	Max. Air Flow m ³ /min (m ³ /h)	Max. Static Pressure Pa	Noise Level dB (A)
MDS1751-24	24	0.70	3200	6.0(360)	137	47

- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 1m from the fan intake side.
- Operating Voltage Range: +15%, -15% of the rated voltage
- An overheat protection function is installed.
- All products are for use in the Class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950). Do not touch the fan blades when the fan is in operation. The use of the optional finger guard is recommended to ensure protection. Standards specifications are listed on page D-2.

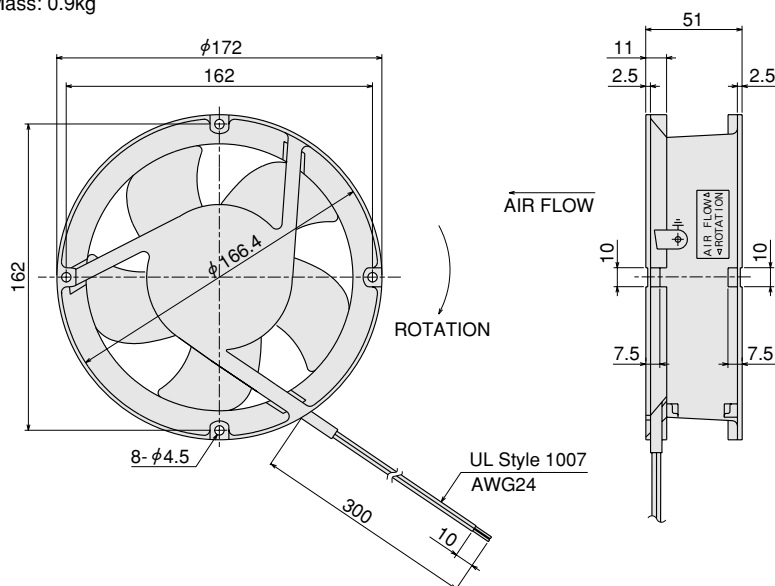
Air Flow – Static Pressure Characteristics**Audible Noise Frequency Analysis**

Measured at a distance of 1m from the fan intake side

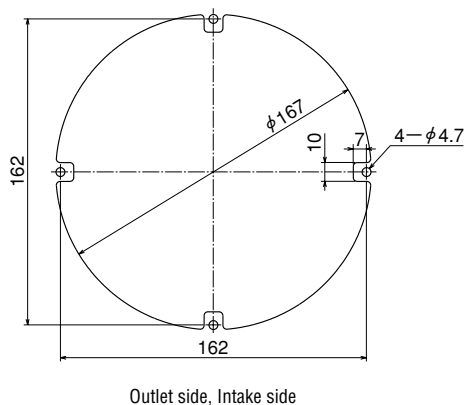


■ Dimensions (Scale 1/4, Unit=mm)

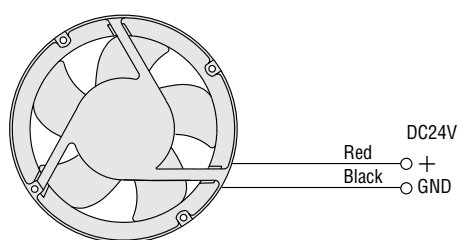
● Mass: 0.9kg



■ Panel Cut-Out (Scale 1/4, Unit: mm)



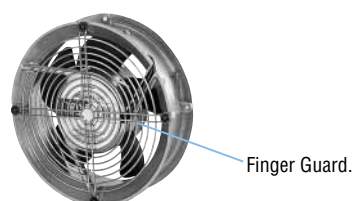
■ Wiring Diagram



■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG17D	*	C-98

* These products have been designed to pass tests set forth under the UL and CSA standards for equipment used in fans. They conform to the standards only when used in an **ORIX.FAN**.



MDS Series

High-Performance Models

119mm-25mm



Materials

Frame : Die Cast Aluminum
Blades : Resin
Flammability Grade: V-O

Specifications

	Model	Rated Voltage DC V	Rated Current A	Rated Speed r/min	Max. Air Flow m³/min (m³/h)	Max. Static Pressure Pa	Noise Level dB (A)
Low speed alarm type	MDS1225-12M	12	0.63	3000	2.7(162)	70	46
Standard type	MDS1225-12	12	0.58				
Low speed alarm type	MDS1225-24M	24	0.34				
Standard type	MDS1225-24	24	0.30				

- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 1m from the fan intake side.
- An overheat protection function is installed.
- All products are for use in the Class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950). Do not touch the fan blades when the fan is in operation. The use of the optional finger guard is recommended to ensure protection. Standards specifications are listed on page D-2.

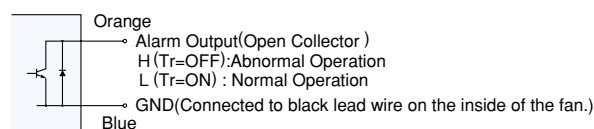
Alarm Specifications

	Speed	Open Collector Output	Internal Transistor
Normal Operation	2500 r/min Min.	Low Level	ON
Abnormal Operation	1700 r/min Max.	High Level	OFF

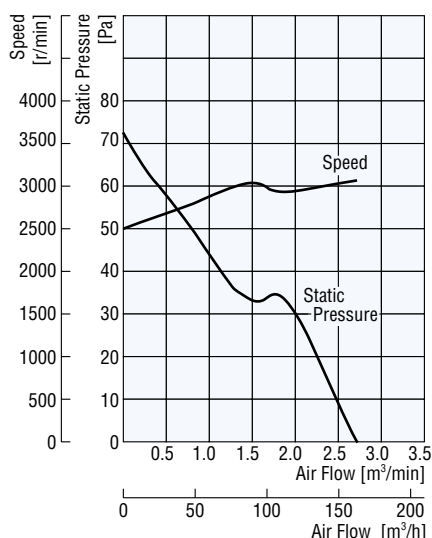
Maximum Voltage : $V_{out} = 30V$ DC max.

Maximum Current : $I_{out} = 15mA$ max.

Alarm Circuit

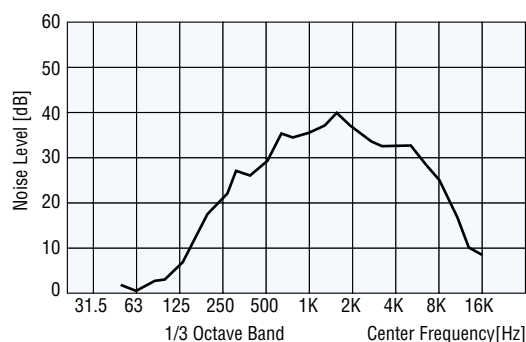


Air Flow – Static Pressure Characteristics



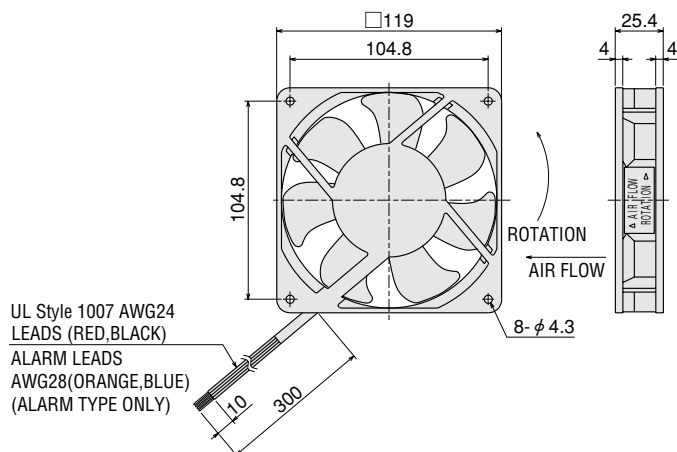
Audible Noise Frequency Analysis

Measured at a distance of 1m from the fan intake side

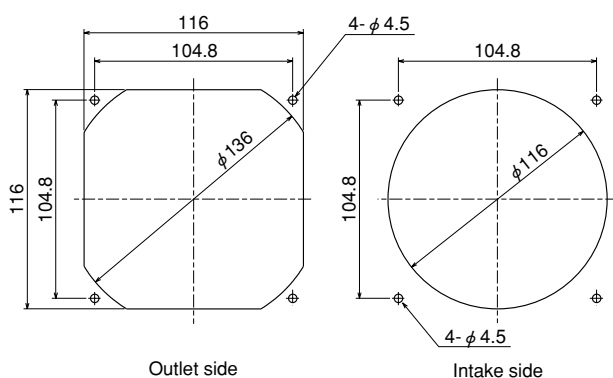


■ Dimensions (Scale 1/4, Unit=mm)

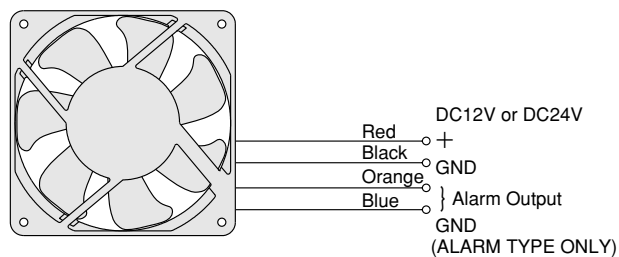
● Mass: 0.3kg



■ Panel Cut-Out (Scale 1/4, Unit: mm)



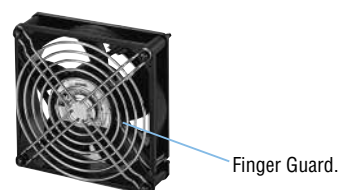
■ Wiring Diagram



■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG12D	*	C-98
Filter	FL12	—	C-101
Screen	FS12	—	C-103

* These products have been designed to pass tests set forth under the UL and CSA standards for equipment used in fans. They conform to the standards only when used in an **ORIX.FAN**.



● A filter or screen can be installed in place of the finger guard.

MD Series

92mm-25mm



Materials

Frame : Resin
Flammability Grade: V-O
Blades : Resin
Flammability Grade: V-O

Specifications

Model		Rated Voltage	Rated Current	Rated Speed	Max. Air Flow	Max. Static Pressure	Noise Level
Stall alarm type	Standard type	DC V	A	r/min	m³/min (m³/h)	Pa	dB (A)
MD925A-12L	MD925A-12	12	0.24	3400	1.30(78)	49	36
MD925A-24L	MD925A-24	24	0.12				

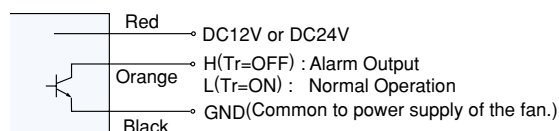
- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 1m from the fan intake side.
- An overheat protection function is installed.
- All products are for use in the Class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950). Do not touch the fan blades when the fan is in operation. The use of the optional finger guard is recommended to ensure protection. Standards specifications are listed on page D-2.

Alarm Specifications

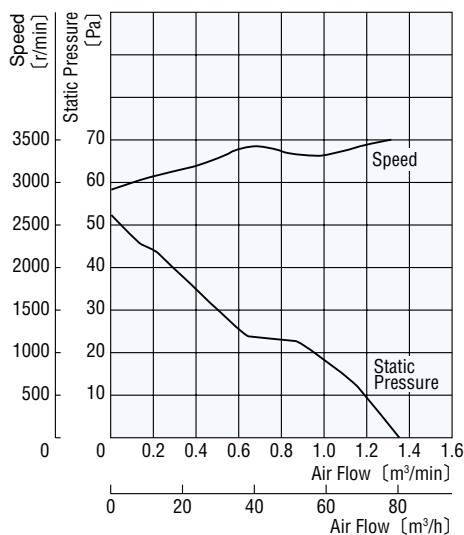
	Open Collector Output	Internal Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

Maximum Voltage : $V_{out} = 30V$ DC max.Maximum Current : $I_{out} = 5mA$ max.

Alarm Circuit

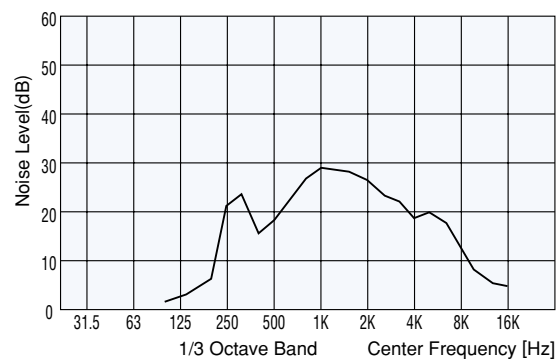


Air Flow – Static Pressure Characteristics



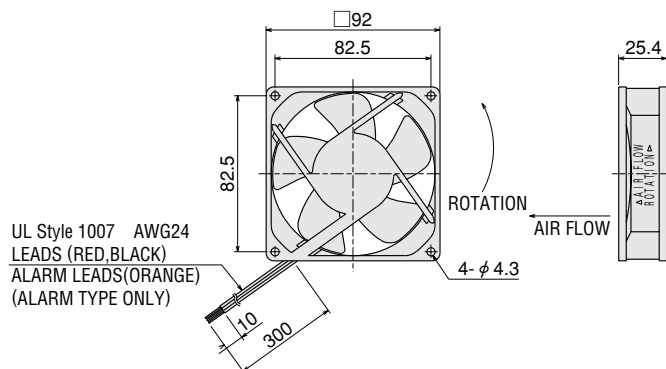
Audible Noise Frequency Analysis

Measured at a distance of 1m from the fan intake side

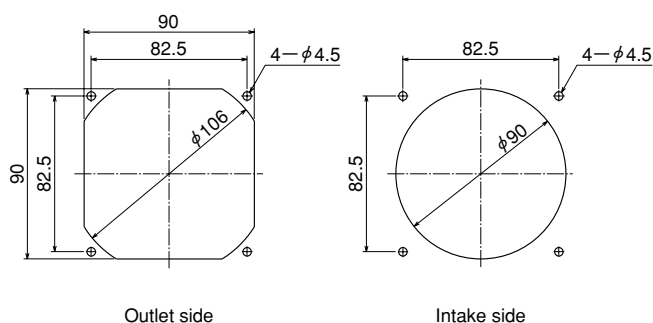


■ Dimensions (Scale 1/4, Unit=mm)

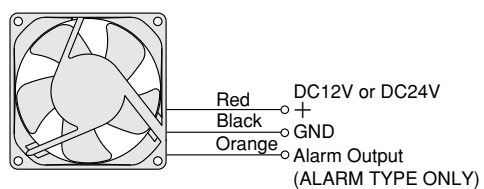
● Mass: 0.12kg



■ Panel Cut-Out (Scale 1/4, Unit: mm)



■ Wiring Diagram



■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG9D	*1	C-98
*2 Filter	FL9	—	C-101
Screen	FS9	—	C-103

*1 These products have been designed to pass tests set forth under the UL and CSA standards for equipment used in fans. They conform to the standards only when used in an **ORIX.FAN**.

*2 Use M3 metric size screws to attach the filter to the fan frame.



Finger Guard.

● A filter or screen can be installed in place of the finger guard.

MD Series

80mm-25mm



Materials

Frame : Resin
Flammability Grade: V-O
Blades : Resin
Flammability Grade: V-O

Specifications

Model		Rated Voltage	Rated Current	Rated Speed	Max. Air Flow	Max. Static Pressure	Noise Level
Stall alarm type	Standard type	DC V	A	r/min	m³/min (m³/h)	Pa	dB (A)
MD825B-12L	MD825B-12	12	0.25	3800	1.00(60)	49	35
MD825B-24L	MD825B-24	24	0.14				

- Values for maximum air flow and static pressure are measured by the double-chamber method.
- Noise level are measured in the A range, at a distance of 1m from the fan intake side.
- An overheat protection function is installed.
- All products are for use in the Class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950). Do not touch the fan blades when the fan is in operation. The use of the optional finger guard is recommended to ensure protection. Standards specifications are listed on page D-2.

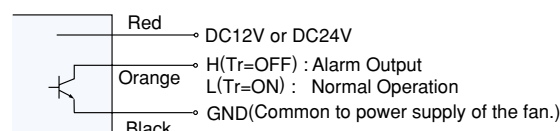
Alarm Specifications

Open Collector Output		Internal Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

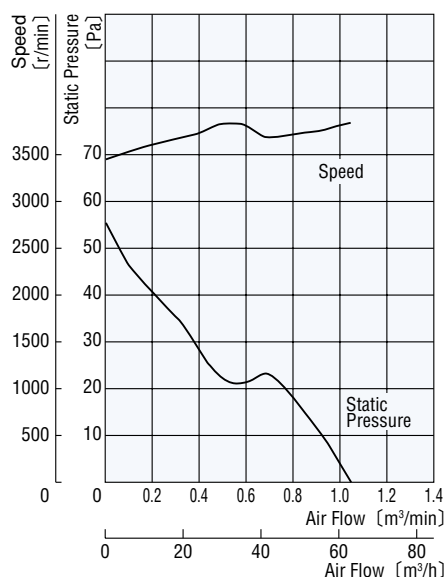
Maximum Voltage : $V_{out} = 30V$ DC max.

Maximum Current : $I_{out} = 5mA$ max.

Alarm Circuit

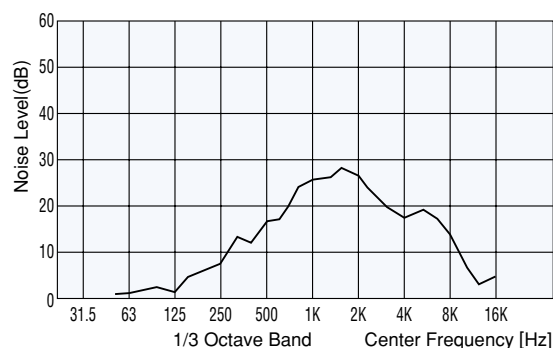


Air Flow – Static Pressure Characteristics



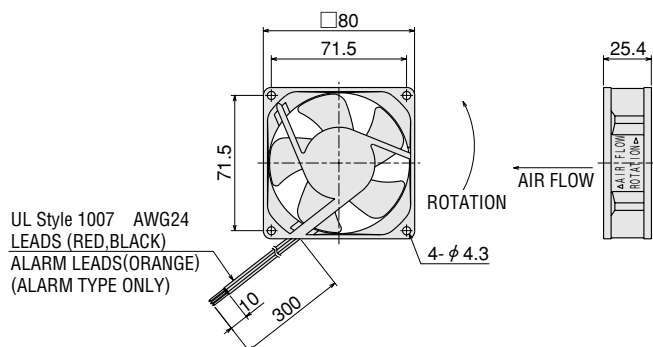
Audible Noise Frequency Analysis

Measured at a distance of 1m from the fan intake side

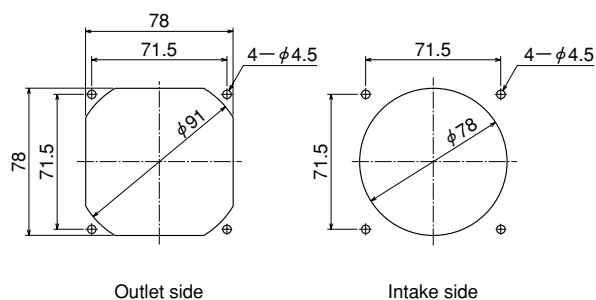


■ Dimensions (Scale 1/4, Unit=mm)

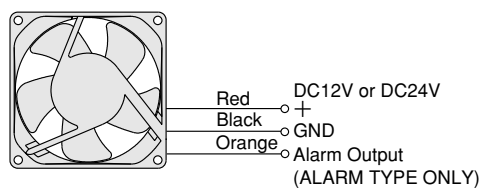
● Mass: 0.11kg



■ Panel Cut-Out (Scale 1/4, Unit: mm)



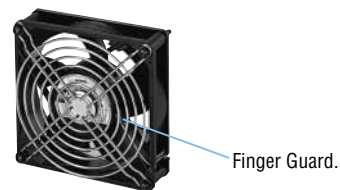
■ Wiring Diagram



■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG8D	*	C-98
Filter	FL8	—	C-101
Screen	FS8	—	C-103

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● A filter or screen can be installed in place of the finger guard.

MD Series

□ 62mm-25mm



Materials

Frame : Resin
Flammability Grade: V-O
Blades : Resin
Flammability Grade: V-O

Specifications

Model		Rated Voltage	Rated Current	Rated Speed	Max. Air Flow	Max. Static Pressure	Noise Level
Stall alarm type	Standard type	DC V	A	r/min	m ³ /min (m ³ /h)	Pa	dB (A)
MD625B-12L	MD625B-12	12	0.16	4000	0.50(30)	49	30
MD625B-24L	MD625B-24	24	0.10				

● Values for maximum air flow and maximum static pressure are measured by the double-chamber method.

● Noise level is measured in the A range, at a distance of 1m from the fan intake side.

● Operating Voltage Range: +15%, -15% of the rated voltage

● An overheat protection function is installed.

● All products are for use in the Class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950). Do not touch the fan blades when the fan is in operation. The use of the optional finger guard is recommended to ensure protection. Standards specifications are listed on page D-2.

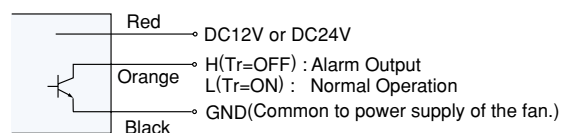
Alarm Specifications

	Open Collector Output	Internal Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

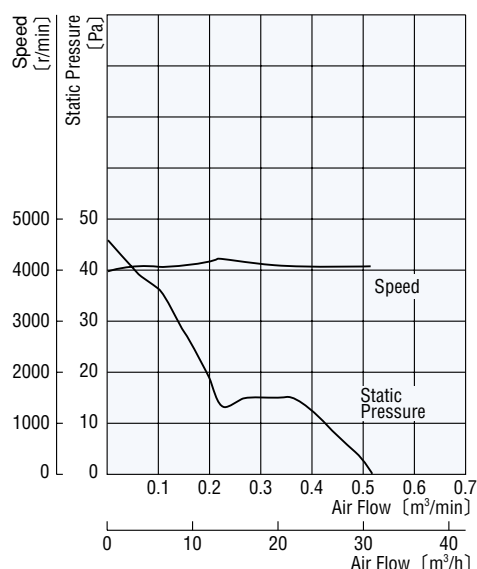
Maximum Voltage : $V_{out} = 30V$ DC max.

Maximum Current : $I_{out} = 5mA$ max.

Alarm Circuit

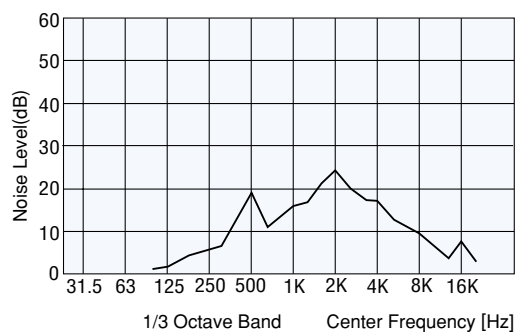


Air Flow – Static Pressure Characteristics



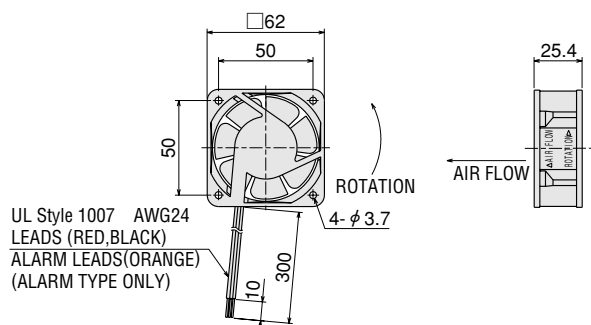
Audible Noise Frequency Analysis

Measured at a distance of 1m from the fan intake side

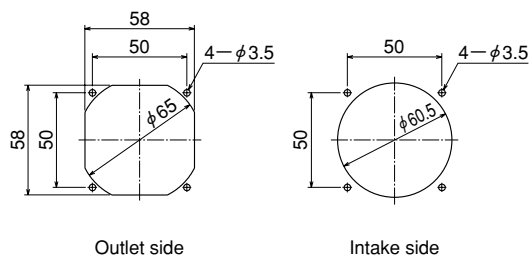


■ Dimensions (Scale 1/4, Unit=mm)

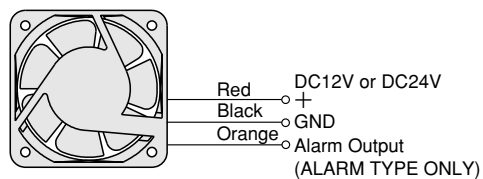
● Mass: 0.1kg



■ Panel Cut-Out (Scale 1/4, Unit: mm)



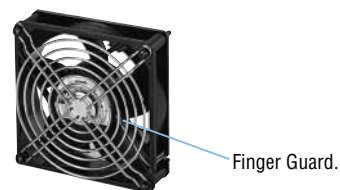
■ Wiring Diagram



■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG6D	*	C-98
Filter	FL6	—	C-101

* These products have been designed to pass tests set forth under the UL and CSA standards for equipment used in fans. They conform to the standards only when used in an **ORIX.FAN**.



● A filter can be installed in place of the finger guard.

MDS Series

High-Performance Models

□ **52mm-10mm**



Materials

Frame : Resin
Flammability Grade: V-O
Blades : Resin
Flammability Grade: V-O

Specifications

Model		Rated Voltage	Rated Current	Rated Speed	Max. Air Flow	Max. Static Pressure	Noise Level
Stall alarm type	Standard type	DC V	A	r/min	m³/min (m³/h)	Pa	dB (A)
MDS510-12L	MDS510-12	12	0.14	7000	0.27(16.2)	54	36
MDS510-24L	MDS510-24	24	0.08				

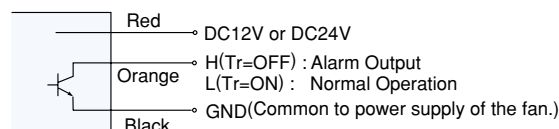
- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 1m from the fan intake side.
- Operating Voltage Range: $\pm 10\%$ of the rated voltage
- An overheat protection function is installed.
- All products are for use in the Class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950). Do not touch the fan blades when the fan is in operation. The use of the optional finger guard is recommended to ensure protection. Standards specifications are listed on page D-2.

Alarm Specifications

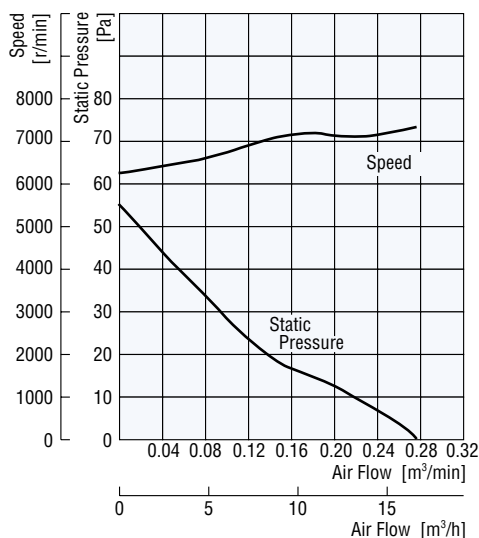
	Open Collector Output	Internal Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

Maximum Voltage : $V_{out} = 30V$ DC max.
Maximum Current : $I_{out} = 5mA$ max.

Alarm Circuit

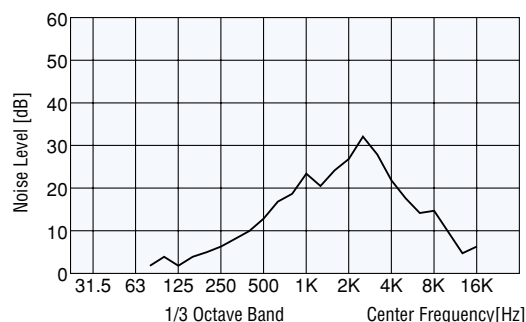


Air Flow – Static Pressure Characteristics



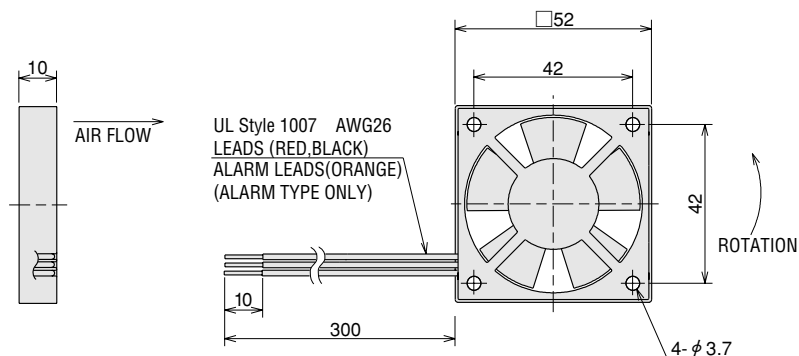
Audible Noise Frequency Analysis

Measured at a distance of 1m from the fan intake side

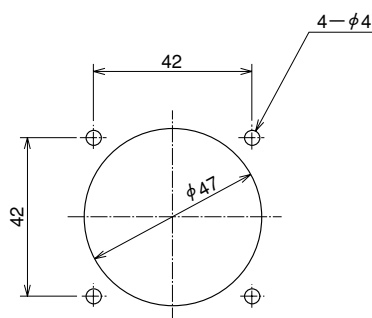


■ Dimensions (Scale 1/2, Unit=mm)

● Mass: 50g

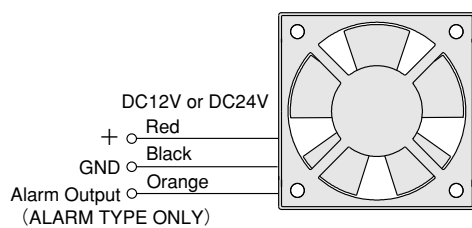


■ Panel Cut-Out (Scale 1/2, Unit: mm)



Outlet side, Intake side

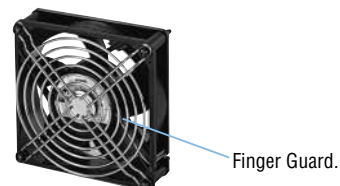
■ Wiring Diagram



■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG5D	*	C-98

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MDS Series

High-Performance Models

□ 42mm-10mm



Materials

Frame : Resin
Flammability Grade: V-O
Blades : Resin
Flammability Grade: V-O

Specifications

Model		Rated Voltage	Rated Current	Rated Speed	Max. Air Flow	Max. Static Pressure	Noise Level
Stall alarm type	Standard type	DC V	A	r/min	m ³ /min (m ³ /h)	Pa	dB (A)
MDS410-12L	MDS410-12	12	0.16	10000	0.18(10.8)	86	34
MDS410-24L	MDS410-24	24	0.09				

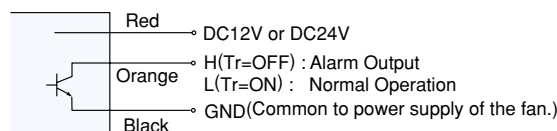
- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 1m from the fan intake side.
- Operating Voltage Range: $\pm 10\%$ of the rated voltage
- An overheat protection function is installed.
- All products are for use in the Class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950). Do not touch the fan blades when the fan is in operation. The use of the optional finger guard is recommended to ensure protection. Standards specifications are listed on page D-2.

Alarm Specifications

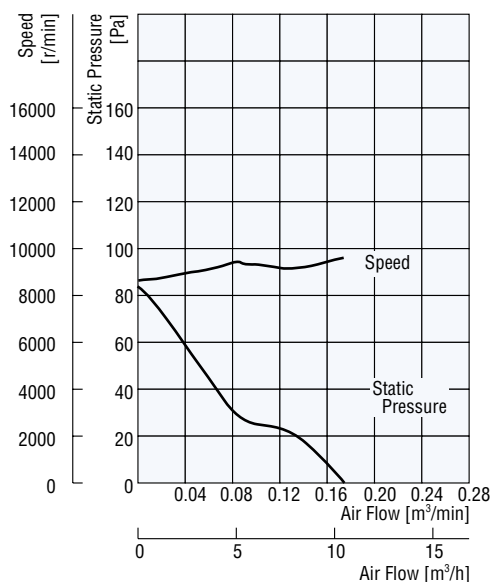
	Open Collector Output	Internal Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

Maximum Voltage : $V_{out} = 30V$ DC max.
Maximum Current : $I_{out} = 5mA$ max.

Alarm Circuit

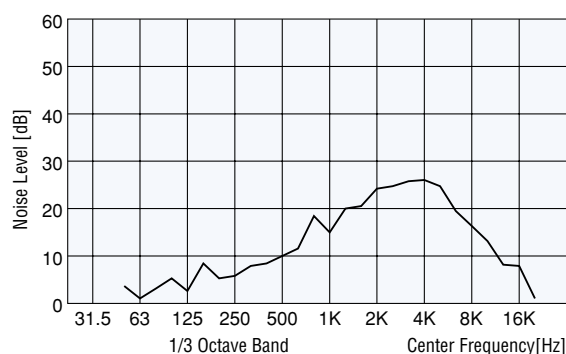


Air Flow – Static Pressure Characteristics



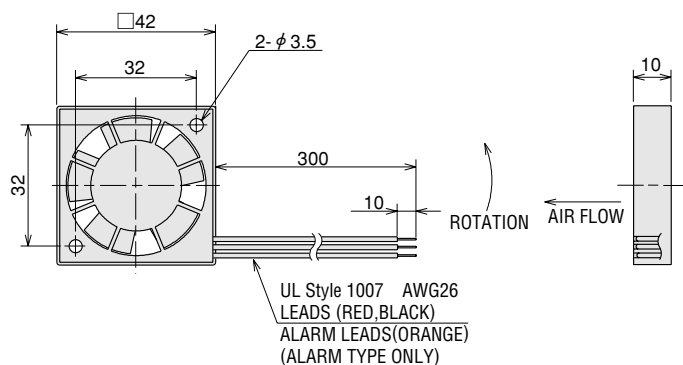
Audible Noise Frequency Analysis

Measured at a distance of 1m from the fan intake side

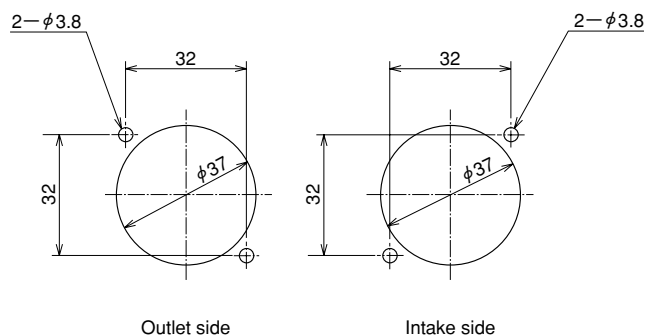


■ Dimensions (Scale 1/2, Unit=mm)

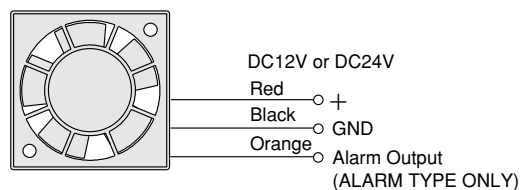
● Mass: 30g



■ Panel Cut-Out (Scale 1/2, Unit: mm)



■ Wiring Diagram



■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG4D	*	C-98

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