#### **High-Performance Models**

6.77 in. dia. $\times$ 2.01 in. thic (172 mm dia. $\times$ 51 mm thic)







Materials
Frame: Die Cast Aluminum

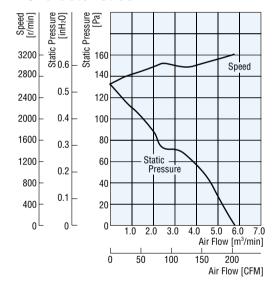
Blades: Resin

Flammability Grade: V-O

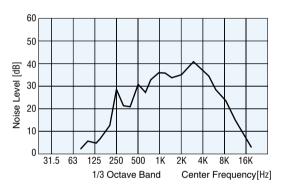
Speed Type	Model	Rated Voltage	Rated Current	Rated Speed	Max. A	ir Flow	Max. Static	Pressure	Noise Level
эреец туре	Model	DC V	А	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
Standard-Speed	MDS1751-24	24	0.70	3200	212	6.0	0.55	137	47

- •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 3.3 feet from the fan intake side.
- Operating Voltage Range: +10%, -40% 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.

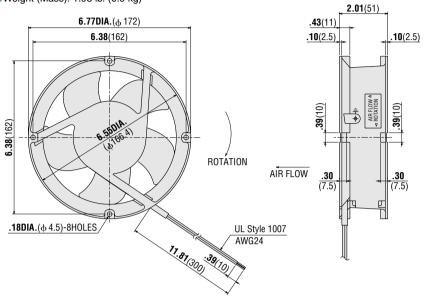
#### Air Flow — Static Pressure Characteristics



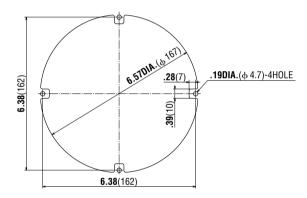
#### Audible Noise Frequency Analysis



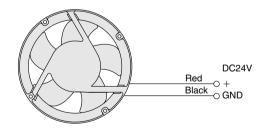
Weight (Mass): 1.98 lb. (0.9 kg)



## ■ Panel Cut-Out scale 1/4, Unit = inch (mm)



## Wiring Diagram



### ■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG17D	*	C-100

\* 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 on an **ORIX.FAN**.



#### **High-Performance Models**

4.69 in. sq. $\times$ 1.00 in. thic (119 mm sq. $\times$ 25.4 mm thic)





Materials

Frame: Die Cast Aluminum

Blades: Resin

Flammability Grade: V-O

## ■ Specifications 🔊 🔊 🛈 €

Speed Type Model		Model	Rated Voltage	Rated Current	Rated Speed	Max.	Air Flow	Max. Stati	c Pressure	Noise Level
Speeu Type	Model		DC V	Α	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
	Low speed alarm type	MDS1225-12M	12	0.63						
Ctandard Cnood	Standard type	MDS1225-12	12	0.58	3000	OF	2.7	0.279	70	46
Standard-Speed	Low speed alarm type	MDS1225-24M	24	0.34	3000	95	2.1	0.279	70	40
	Standard type	MDS1225-24	24	0.30						

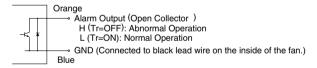
- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 3.3 feet from the fan intake side.
- Operating Voltage Range: ±10% of the rated voltage
- An overheat protection function is installed.
- ●All 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

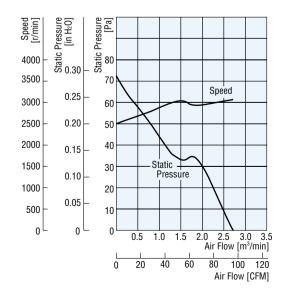
	Chood	Open Collector	Internal
	Speed	Output	Transistor
Normal Operation	2500 r/min Min.	Low Level	ON
Abnormal Operation	1700 r/min Max.	High Level	OFF

Maximum Voltage :  $V_{out} = 30V DC max$ . Maximum Current :  $I_{out} = 15mA max$ .

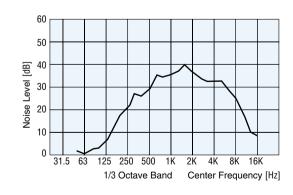
#### Alarm Circuit



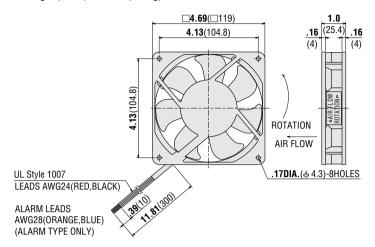
#### Air Flow — Static Pressure Characteristics



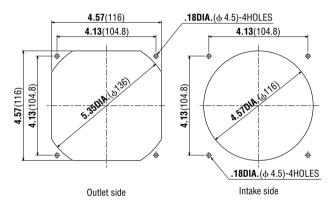
## Audible Noise Frequency Analysis



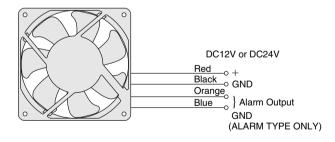
•Weight (Mass): 0.66 lb. (0.3 kg)



#### Panel Cut-Out Scale 1/4, Unit = inch (mm)



## Wiring Diagram



#### ■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG12D	*	C-100
Filter	FL12	_	C-103
Screen	FS12	_	C-106

\* 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 on an **ORIX.**FAN.



4.69 in. sq. $\times$ 1.00 in. thic (119 mm sq. $\times$ 25.4 mm thic)





#### **Materials**

Frame: Die Cast Aluminum

Blades: Resin

Flammability Grade: V-O

# ■ Specifications 🔊 🔊 🛈 🤇 🧲

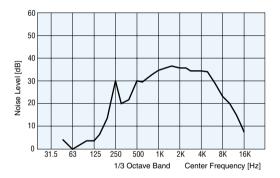
Coood Tupo	Model	Rated Voltage	Rated Current	Rated Speed	Max. A	ir Flow	Max. Static	Pressure	Noise Level
Speed Type	Model	DC V	Α	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
Ctandard Casad	MD1225-12	12	0.47	2100	00.0	0.5	0.17	40	AE
Standard-Speed	MD1225-24	24	0.26	- 3100	88.3	2.5	0.17	43	45

- 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 3.3 feet 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.

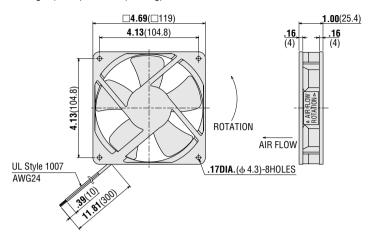
#### Air Flow — Static Pressure Characteristics

#### Static F 0.16 3200 2800 0.14 Speed 2400 0.12 30 2000 0.10 25 1600 20 0.08 1200 0.06 15 800 0.04 10 Static 400 0.02 0 0.8 16 2.0 Air Flow [m³/min] 20.0 40.0 60.0 80.0 Air Flow [CFM]

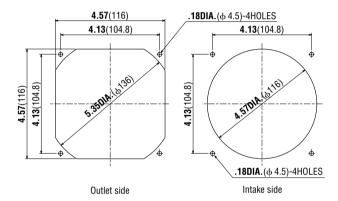
### Audible Frequency Analysis



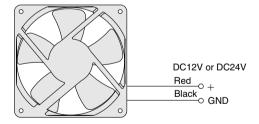
Weight (Mass): 0.42 lb. (0.19 kg)



# ■ Panel Cut-Out Scale 1/4, Unit = inch (mm)



### Wiring Diagram



#### ■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG12D	*	C-100
Filter	FL12	_	C-103
Screen	FS12	_	C-106

\* 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 on an **ORIX.FAN**.



3.62 in. sq. $\times$ 1.00 in. thic (92 mm sq. $\times$ 25.4 mm thic)





#### Materials

Frame: Resin

Flammability Grade: V-O Blades: Resin

s. nesiii

Flammability Grade: V-O

## 

Conned Time	Mo	odel	Rated Voltage	Rated Current	Rated Speed	Max.	Air Flow	Max. Station	c Pressure	Noise Level
Speed Type	Stall alarm type	Standard type	DC V	Α	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
Standard-Speed	MD925A-12L	MD925A-12	12	0.24	2400	3400 45.9	1.30	0.20	49	36
Statiuaru-Speeu	MD925A-24L	MD925A-24	24	0.12	3400		1.30	0.20	43	
Middle-Speed	_	MD925AM-12	12	0.15	2800	38.8	1.10	0.14	34	31
wildule-Speed	_	MD925AM-24	24	0.09	2000	30.0	1.10	0.14		
Low-Speed	_	MD925AL-12	12	0.10	2200	31.8	0.90	0.09	22	00
Low-Speeu	— MD925AL-24 24 0.07	31.0	0.90	0.09	22	28				

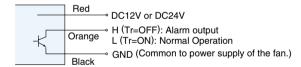
- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 3.3 feet from the fan intake side.
- An overheat protection function is installed.
- ●All products are for use in the class II (for EN60950), 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

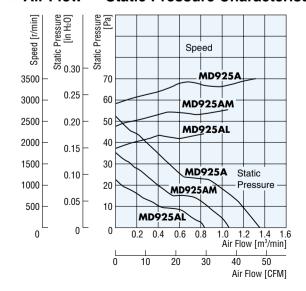
	Open Collector	Internal
	Output	Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

Maximum Voltage: V out = 30V DC max. Maximum Current: I out = 5mA max.

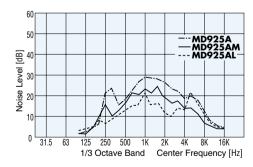
#### Alarm Circuit



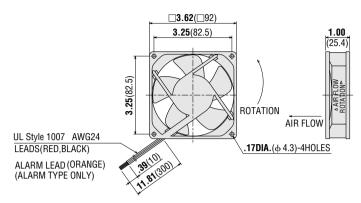
#### Air Flow — Static Pressure Characteristics



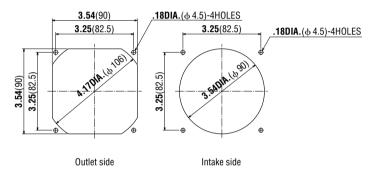
### Audible Noise Frequency Analysis



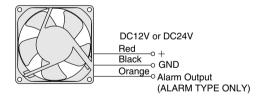
Weight (Mass): 0.26 lb. (0.12 kg)



### ■ Panel Cut-Out Scale 1/4, Unit = inch (mm)



# Wiring Diagram



### ■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG9D	*1	C-100
*2 Filter	FL9	_	C-103
Screen	FS9	_	C-106

- \*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 on an **ORIX.FAN**.
- \*2 Use M3 metric size screws to attach the filter to the fan frame.



3.15 in. sq. $\times$ 1.00 in. thic (80 mm sq. $\times$ 25.4 mm thic)





Materials

Frame: Resin

Flammability Grade: V-O

Blades: Resin

Flammability Grade: V-O

## ■ Specifications 🔊 🔊 🛈 €

Coood Type	Mo	odel	Rated Voltage	Rated Current	Rated Speed	Max.	Air Flow	Max. Stati	c Pressure	Noise Level
Speed Type	Stall alarm type	Standard type	DC V	Α	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
Ctandard Cnood	MD825B-12L	MD825B-12	12	0.25	0000 05.0	1.00	0.20	40	0.5	
Standard-Speed	MD825B-24L	MD825B-24	24	0.14	3800	35.3	1.00	0.20	49	35
Middle Cased	_	MD825BM-12	12	0.15	0050	05.0	0.70	0.10	00	00
Middle-Speed		MD825BM-24	24	0.09	2850 25.8	0.73	0.12	29	29	
Low-Speed	_	MD825BL-12	12	0.07	2100	19.4	0.55	0.06	16	25

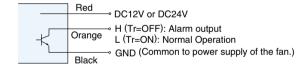
- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 3.3 feet from the fan intake side.
- An overheat protection function is installed.
- All products are for use in the class II (for EN60950), 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

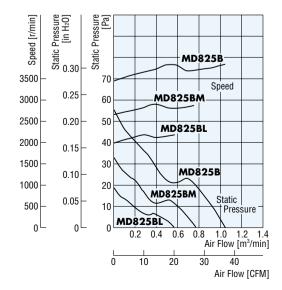
	Open Collector	Internal
	Output	Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

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

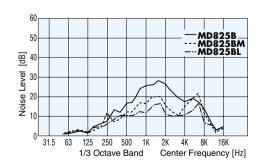
#### Alarm Circuit



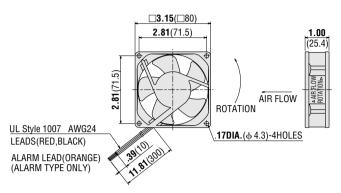
#### Air Flow — Static Pressure Characteristics



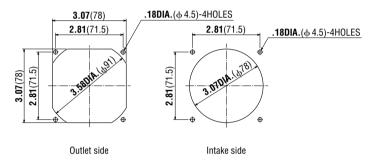
### Audible Noise Frequency Analysis



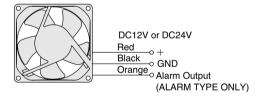
Weight (Mass): 0.24 lb. (0.11 kg)



#### ■ Panel Cut-Out Scale 1/4, Unit = inch (mm)



### Wiring Diagram



### ■ Accessories (Sold separately)

Item	Model	Safety Standards	Page
Finger Guard	FG8D	*	C-100
Filter	FL8	_	C-103
Screen	FS8	_	C-106

\* 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 on an **ORIX.FAN**.



2.44 in. sq. $\times$ 1.00 in. thic (62 mm sq. $\times$ 25.4 mm thic)





Materials

Frame: Resin

Flammability Grade: V-O

Blades: Resin

Flammability Grade: V-O

## ■ Specifications 🔻 🗚 🛈 🤇 🤅

Speed Type	Model		Rated Voltage	Rated Current	Rated Speed	Max. Air Flow		Max. Static Pressure		Noise Level
	Stall alarm type	Standard type	DC V	Α	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
Standard-Speed	MD625B-12L	MD625B-12	12	0.16	4000	18	0.50	0.20	49	20
	MD625B-24L	MD625B-24	24	0.10	4000	10	0.50	0.20	49	30
Middle-Speed	_	MD625BM-12	12	0.10	2000	10	0.07	0.1	07	O.E.
	_	MD625BM-24	24	0.07	3000	13	0.37	0.1	27	25

- 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 3.3 feet from the fan intake side.
- Operating Voltage Range: MD625B□-12: +15%, −33% of the rated voltage
- MD625B□-24: +15%, -50% of the rated voltage

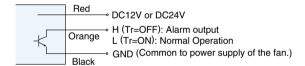
   An overheat protection function is installed.
- ■All products are for use in the class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950).
- Do not touch the fan blades when the fan is in operation. The use of the optional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

#### Alarm Specifications

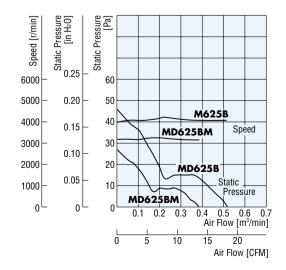
	Open Collector	Internal
	Output	Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

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

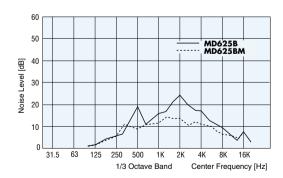
#### Alarm Circuit



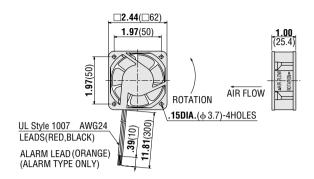
#### Air Flow — Static Pressure Characteristics



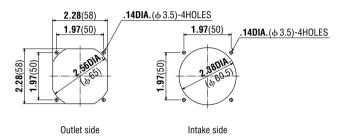
#### Audible Noise Frequency Analysis



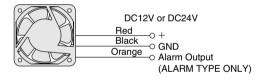
Weight (Mass): 0.22lb. (0.1 kg)



## ■ Panel Cut-Out scale 1/4, Unit = inch (mm)



## Wiring Diagram



### ■ Accessories (Sold separately)

Item	Model	Page
Finger Guard	FG6B	C-100
Filter	FL6	C-103



#### **High-Performance Models**

2.05 in. sq. $\times$ .39 in. thic (52 mm sq. $\times$ 10 mm thic)



Specifications



#### Materials

Frame: Resin

Flammability Grade: V-O

Blades: Resin

Flammability Grade: V-O

			• •							
Chood Type	Model		Rated Voltage	Rated Current	Rated Speed	Max.	Air Flow	Max. Static	Pressure	Noise Level
Speed Type	Stall alarm type	Standard type	DC V	Α	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
Chandand Casad	MDS510-12L	MDS510-12	12	0.14	7000	٥٢	0.07	0.010	F.4	
Standard-Speed	MDS510-24L	MDS510-24	24	0.08	7000	9.5	0.27	0.216	54	36
	_	MDS510M-5	5	0.2						
Middle-Speed	_	MDS510M-12	12	0.12	5500	7.1	0.2	0.129	32	30

0.06

- 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 3.3 feet from the fan intake side.

MDS510M-24

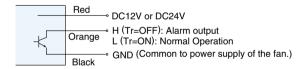
- Operating Voltage Range: ±10% of the rated voltage
- An overheat protection function is installed.
- All products are for use in the class II (for EN60950), low voltage, limited energy circuit (for UL/CSA standard) or in the safety extra low voltage range (for EN60950).
- Do not touch the fan blades 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

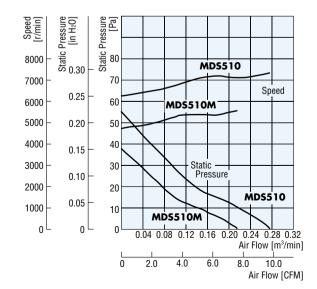
	Open Collector	Internal
	Output	Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

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

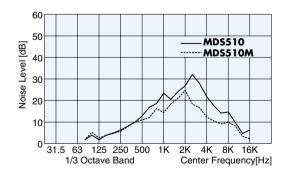
#### Alarm Circuit



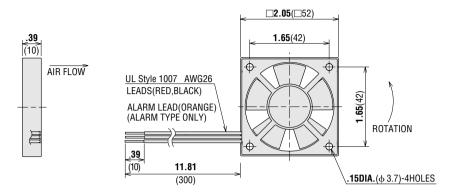
#### ■ Air Flow — Static Pressure Characteristics



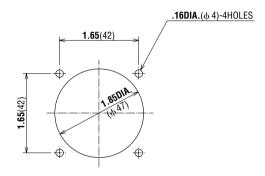
## Audible Noise Frequency Analysis



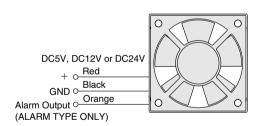
•Weight (Mass): 0.07 lb. (30 g)



### ■ Panel Cut-Out Scale 1/2, Unit = inch (mm)



## Wiring Diagram



### ■ Accessories (Sold separately)

Item	Model	Page	
Finger Guard	FG5B	C-100	



#### **High-Performance Models**

1.65 in. sq. $\times$ .39 in. thic (42 mm sq. $\times$ 10 mm thic)





#### Materials

Frame: Resin

Flammability Grade: V-O

Blades: Resin

Flammability Grade: V-O

## ■ Specifications 🔻 🔊 🛈 🤇 🤇

Speed Type	Model		Rated Voltage	Rated Current	Rated Speed	Max. Air Flow		Max. Static Pressure		Noise Level
	Stall alarm type	Standard type	DC V	Α	r/min	CFM	m³/min	in H <sub>2</sub> O	Pa	dB(A)
Standard-Speed	MDS410-12L	MDS410-12	12	0.16	10000	C 4	0.18	0.046	0.0	24
	MDS410-24L	MDS410-24	24	0.09	10000	6.4	0.10	0.346	86	34
Middle-Speed	_	MDS410M-5	5	0.2	7500	4.59	0.13	0.188	47	29

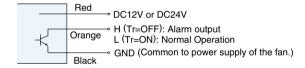
- Values for maximum air flow and maximum static pressure are measured by the double-chamber method.
- Noise level is measured in the A range, at a distance of 3.3 feet from the fan intake side.
- Operating Voltage Range: ±10% of the rated voltage
- An overheat protection function is installed.
- ●All 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

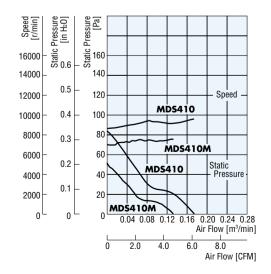
	Open Collector	Internal
	Output	Transistor
Normal Operation	Low Level	ON
When locked	High Level	OFF

Maximum Voltage: V out = 30V DC max. Maximum Current: I out = 15mA max.

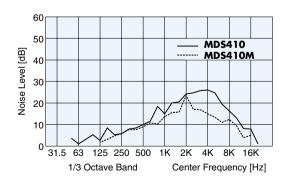
#### Alarm Circuit



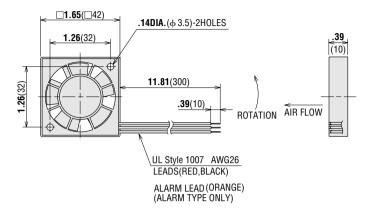
#### Air Flow — Static Pressure Characteristics



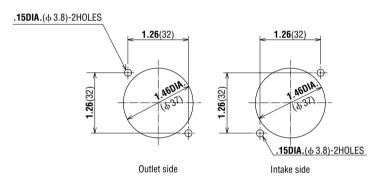
#### Audible Noise Frequency Analysis



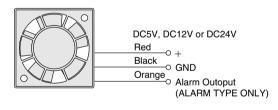
•Weight (Mass): 0.07 lb. (30 g)



## ■ Panel Cut-Out Scale 1/2, Unit = inch (mm)



## Wiring Diagram



### ■ Accessories (Sold separately)

Item	Model	Page	
Finger Guard	FG4B	C-100	

