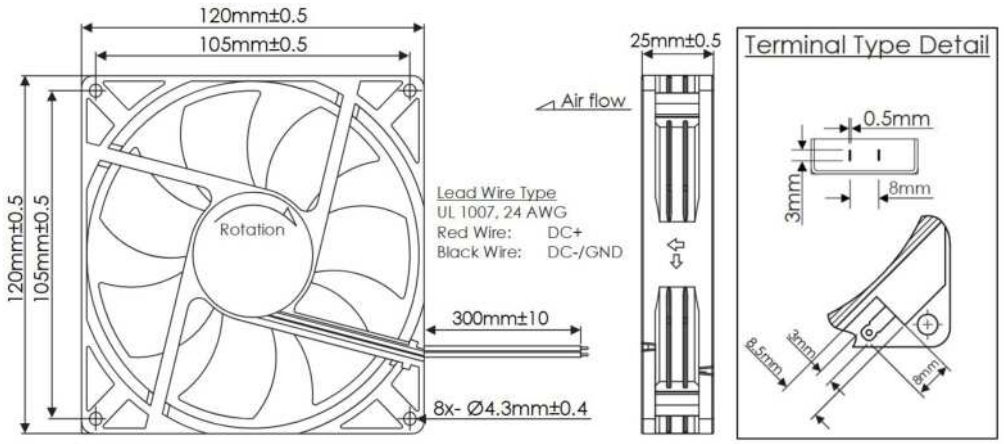
OD1225 Series

DC Fans - 12, 24, 48V
120mm x 25mm (4.7” x 1.0”)



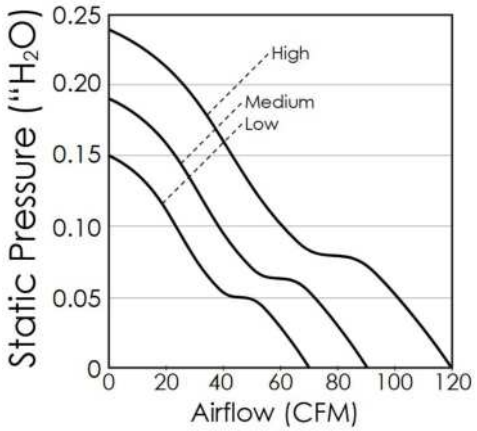


Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Lead Wires, 24 AWG, or Terminals
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

Operating Temperature
-20°C ~ +65°C
Storage Temperature
-25°C ~ +75°C
Life Expectancy
70,000 Hours (L10 at 40°C)

Available Options
PWM Speed Control Input
Tachometer Output
Alarm Output
IP Ratings
Terminal Power Connection
Sealed Sleeve Bearings
5 Volt

Weight: 0.34 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
OD1225-12H*B	12	8 ~ 13.8	5.4 (7.6)	0.45 (0.63)	3100	120	42	0.24
OD1225-12M*B	12	8 ~ 13.8	4.2 (5.8)	0.35 (0.48)	2500	90	35	0.19
OD1225-12L*B	12	8 ~ 13.8	2.4 (3.2)	0.20 (0.27)	1900	70	25	0.15
OD1225-24H*B	24	15 ~ 26	5.5 (7.7)	0.23 (0.32)	3100	120	42	0.24
OD1225-24M*B	24	15 ~ 26	4.1 (5.5)	0.17 (0.23)	2500	90	35	0.19
OD1225-24L*B	24	15 ~ 26	2.4 (3.4)	0.10 (0.14)	1900	70	25	0.15
OD1225-48H*B	48	28 ~ 52	4.3 (8.6)	0.09 (0.18)	3100	120	42	0.24
OD1225-48M*B	48	28 ~ 52	3.4 (4.3)	0.07 (0.09)	2500	90	35	0.19
OD1225-48L*B	48	28 ~ 52	2.9 (3.8)	0.06 (0.08)	1900	70	25	0.15

* Insert “T” for Terminal type power connection, or blank for Wire Lead type power connection. For Terminal power connection, observe frame polarity markings.

Knight Electronics, Inc.
10557 Metric Drive
Dallas, TX 75243
214-340-0265

Revised 10/9/2025
m0

c UL us E170149 CE UKCA RoHS TÜV

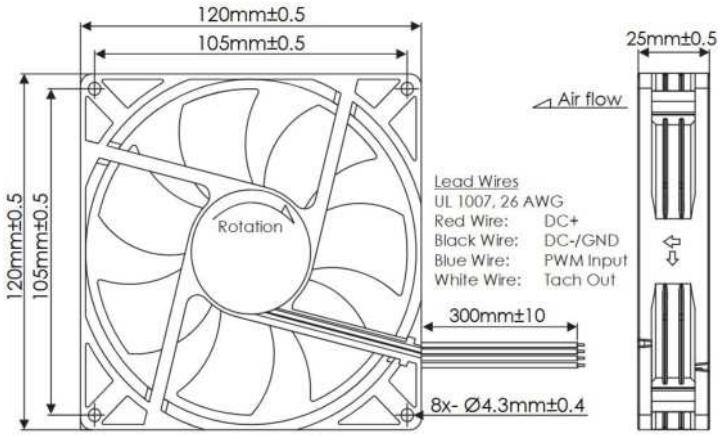
Orion Fans

Information and data is subject to change without prior notification

OD1225 Series with PWM and Tach

DC Fans - 12, 24, 48V
120mm x 25mm (4.7” x 1.0”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	4x Lead Wires, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

Operating Temperature
-20°C ~ +65°C

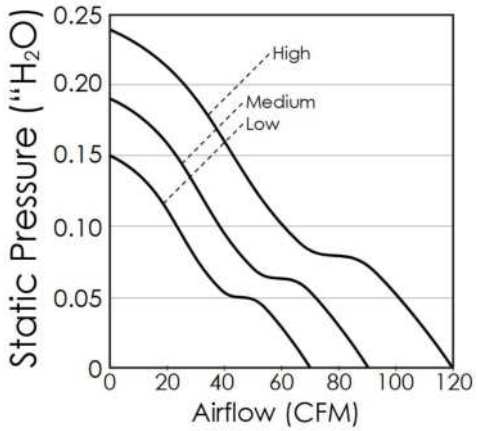
Storage Temperature
-25°C ~ +75°C

Life Expectancy
70,000 Hours (L10 at 40°C)

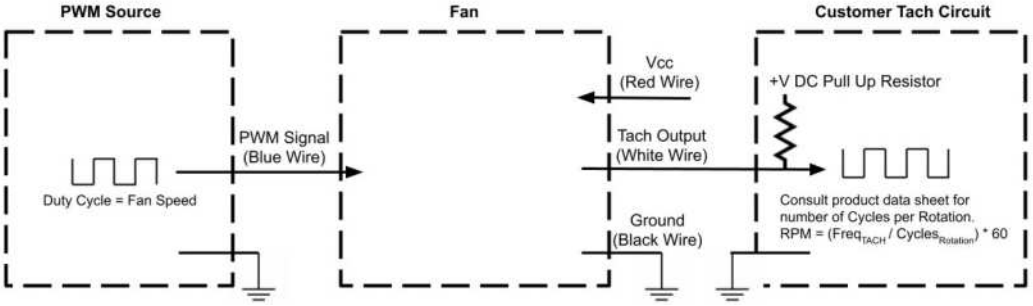
Installed Options
PWM Speed Control Input
Open Collector Tach Output

Available Options
5V TTL Tach Output

Weight: 0.34 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
OD1225-12HB10A	12	8 ~ 13.8	5.4 (7.6)	0.45 (0.63)	3100	120	42	0.24
OD1225-12MB10A	12	8 ~ 13.8	4.2 (5.8)	0.35 (0.48)	2500	90	35	0.19
OD1225-12LB10A	12	8 ~ 13.8	2.4 (3.2)	0.20 (0.27)	1900	70	25	0.15
OD1225-24HB10A	24	15 ~ 26	5.5 (7.7)	0.23 (0.32)	3100	120	42	0.24
OD1225-24MB10A	24	15 ~ 26	4.1 (5.5)	0.17 (0.23)	2500	90	35	0.19
OD1225-24LB10A	24	15 ~ 26	2.4 (3.4)	0.10 (0.14)	1900	70	25	0.15
OD1225-48HB10A	48	28 ~ 52	4.3 (8.6)	0.09 (0.18)	3100	120	42	0.24
OD1225-48MB10A	48	28 ~ 52	3.4 (4.3)	0.07 (0.09)	2500	90	35	0.19
OD1225-48LB10A	48	28 ~ 52	2.9 (3.8)	0.06 (0.08)	1900	70	25	0.15



Tach Max Pullup Voltage:	Fan Vcc
Tach Max Sink Current:	5mA
Tach Cycles per Rotation:	2
PWM Max High Voltage:	5V
PWM Max Sink Current:	5mA
PWM Frequency Range:	1KHz-100KHz
PWM Typical Frequency:	25KHz
RPM at 0% Duty Cycle:	0 RPM

RPM will be full speed if PWM input is disconnected.
RPM will be 0 RPM if PWM input is grounded.

Knight Electronics, Inc.
10557 Metric Drive
Dallas, TX 75243
214-340-0265

Revised 10/9/2025
m0

c UL us E170149 CE UKCA RoHS TÜV

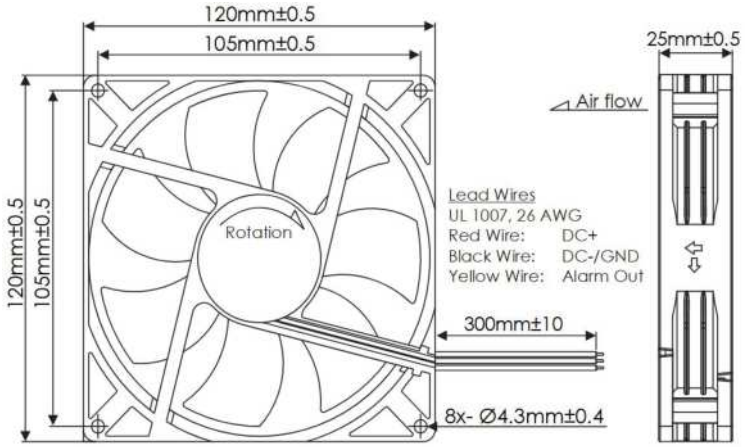
Orion Fans

Information and data is subject to change without prior notification

OD1225 Series with Alarm

DC Fans - 12, 24, 48V
120mm x 25mm (4.7" x 1.0")





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Lead Wires, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

Operating Temperature
-20°C ~ +65°C

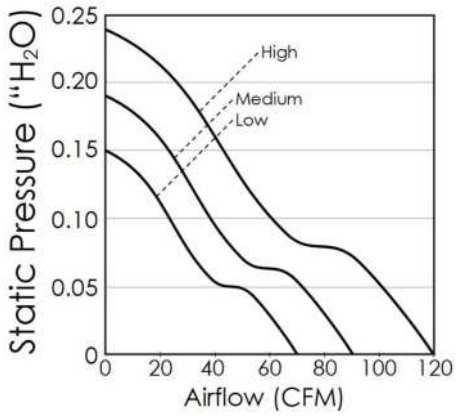
Storage Temperature
-25°C ~ +75°C

Life Expectancy
70,000 Hours (L10 at 40°C)

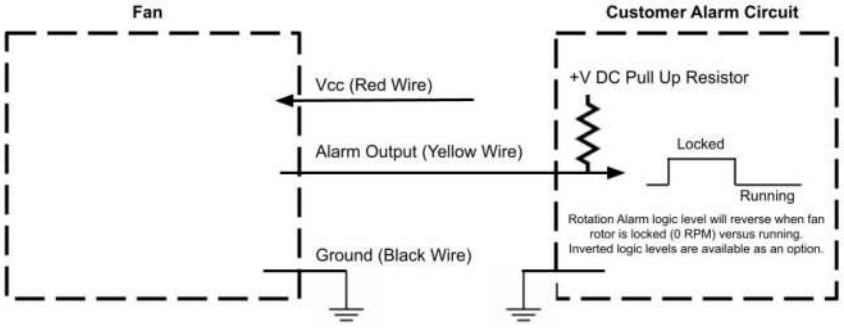
Installed Options
Open Collector Alarm Output

Available Options
Inverted Alarm Logic
5V TTL Alarm Output

Weight: 0.34 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD1225-12HB02A	12	8 ~ 13.8	5.4 (7.6)	0.45 (0.63)	3100	120	42	0.24
OD1225-12MB02A	12	8 ~ 13.8	4.2 (5.8)	0.35 (0.48)	2500	90	35	0.19
OD1225-12LB02A	12	8 ~ 13.8	2.4 (3.2)	0.20 (0.27)	1900	70	25	0.15
OD1225-24HB02A	24	15 ~ 26	5.5 (7.7)	0.23 (0.32)	3100	120	42	0.24
OD1225-24MB02A	24	15 ~ 26	4.1 (5.5)	0.17 (0.23)	2500	90	35	0.19
OD1225-24LB02A	24	15 ~ 26	2.4 (3.4)	0.10 (0.14)	1900	70	25	0.15
OD1225-48HB02A	48	28 ~ 52	4.3 (8.6)	0.09 (0.18)	3100	120	42	0.24
OD1225-48MB02A	48	28 ~ 52	3.4 (4.3)	0.07 (0.09)	2500	90	35	0.19
OD1225-48LB02A	48	28 ~ 52	2.9 (3.8)	0.06 (0.08)	1900	70	25	0.15



Alarm Max Pullup Voltage: Fan Vcc
Alarm Max Sink Current: 5mA
Alarm Active State: HIGH

Knight Electronics, Inc.
10557 Metric Drive
Dallas, TX 75243
214-340-0265

Revised 10/9/2025
m0

c UL us E170149 CE UKCA RoHS TÜV

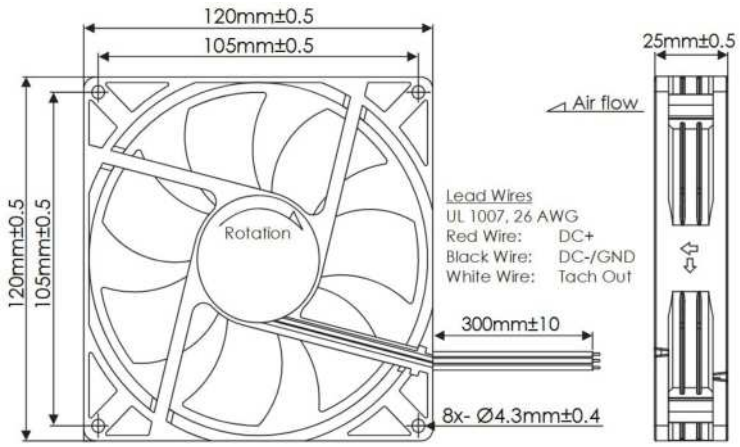
Orion Fans

Information and data is subject to change without prior notification

OD1225 Series with Tachometer

DC Fans - 12, 24, 48V
120mm x 25mm (4.7” x 1.0”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Lead Wires, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

Operating Temperature
-20°C ~ +65°C

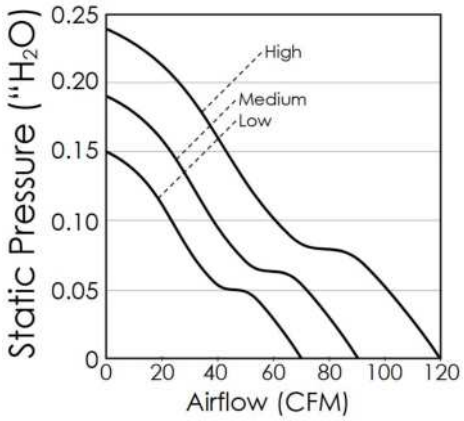
Storage Temperature
-25°C ~ +75°C

Life Expectancy
70,000 Hours (L10 at 40°C)

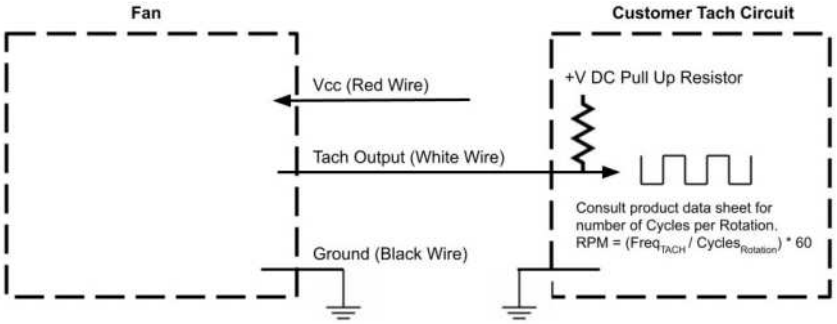
Installed Options
Open Collector Tach Output

Available Options
5V TTL Tach Output

Weight: 0.34 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD1225-12HB01A	12	8 ~ 13.8	5.4 (7.6)	0.45 (0.63)	3100	120	42	0.24
OD1225-12MB01A	12	8 ~ 13.8	4.2 (5.8)	0.35 (0.48)	2500	90	35	0.19
OD1225-12LB01A	12	8 ~ 13.8	2.4 (3.2)	0.20 (0.27)	1900	70	25	0.15
OD1225-24HB01A	24	15 ~ 26	5.5 (7.7)	0.23 (0.32)	3100	120	42	0.24
OD1225-24MB01A	24	15 ~ 26	4.1 (5.5)	0.17 (0.23)	2500	90	35	0.19
OD1225-24LB01A	24	15 ~ 26	2.4 (3.4)	0.10 (0.14)	1900	70	25	0.15
OD1225-48HB01A	48	28 ~ 52	4.3 (8.6)	0.09 (0.18)	3100	120	42	0.24
OD1225-48MB01A	48	28 ~ 52	3.4 (4.3)	0.07 (0.09)	2500	90	35	0.19
OD1225-48LB01A	48	28 ~ 52	2.9 (3.8)	0.06 (0.08)	1900	70	25	0.15



Tach Max Pullup Voltage: Fan Vcc
Tach Max Sink Current: 5mA
Tach Cycles per Rotation: 2

Knight Electronics, Inc.
10557 Metric Drive
Dallas, TX 75243
214-340-0265

Revised 6/9/2025
m0

Orion Fans

Information and data is subject to change without prior notification