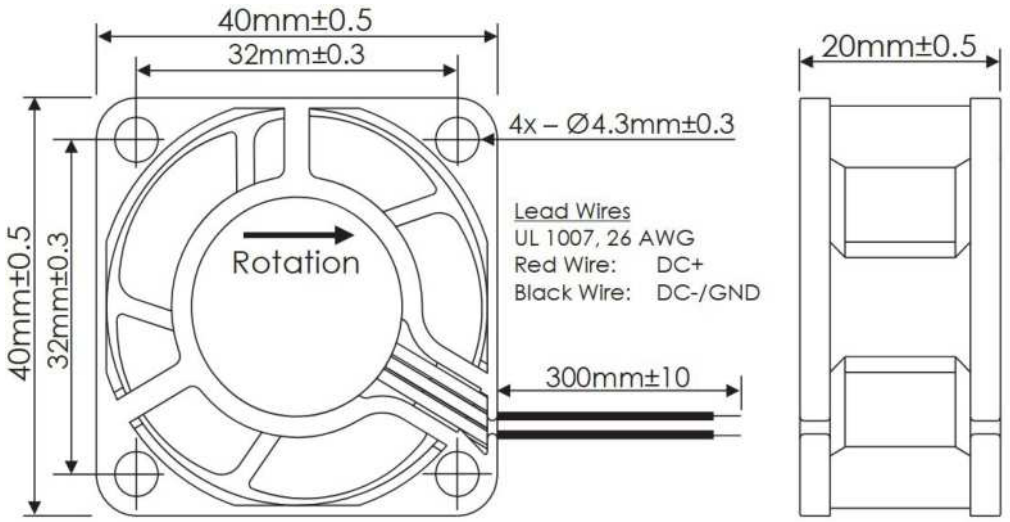
OD4020 Series

DC Fans - 5, 12, 24V
40mm x 20mm (1.58” x 0.79”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Wire Leads, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500V DC

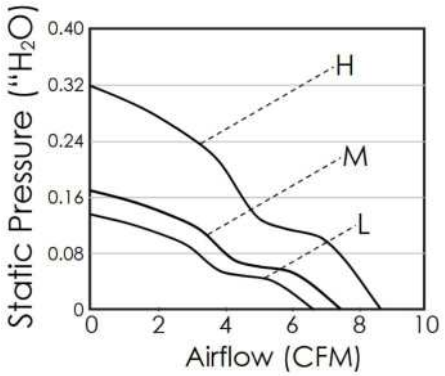
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

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

Available Options
PWM Speed Control Input
Tachometer Output
Alarm Output
IP Ratings

Weight: 0.07 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)
OD4020-05HB	5	4.5 ~ 5.5	1.80	0.23 (0.36)	7780	8.7	32.1	0.32
OD4020-05MB	5	4.5 ~ 5.5	1.15	0.20 (0.23)	6475	7.5	30.3	0.17
OD4020-05LB	5	4.5 ~ 5.5	0.90	0.16 (0.18)	5150	6.5	24.1	0.14
OD4020-12HB	12	8 ~ 13.8	2.52	0.10 (0.21)	8190	8.7	32.1	0.32
OD4020-12MB	12	8 ~ 13.8	1.20	0.08 (0.10)	6475	7.5	30.3	0.17
OD4020-12LB	12	8 ~ 13.8	0.96	0.06 (0.08)	5150	6.5	24.1	0.14
OD4020-24HB	24	14 ~ 26.4	2.16	0.07 (0.09)	8190	8.7	32.1	0.32
OD4020-24MB	24	14 ~ 26.4	1.68	0.05 (0.07)	6475	7.5	30.3	0.17
OD4020-24LB	24	14 ~ 26.4	1.20	0.04 (0.05)	5150	6.5	24.1	0.14

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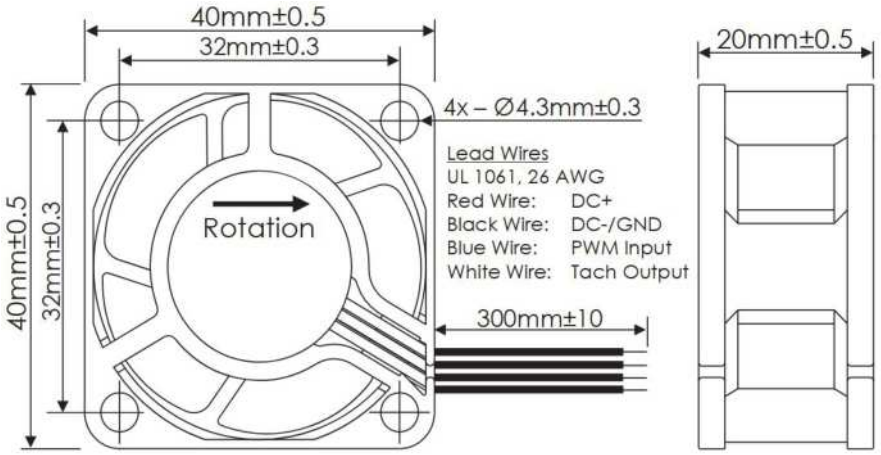
E170149

Orion Fans
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OD4020 Series with PWM and Tach

DC Fans - 5, 12, 24V
40mm x 20mm (1.58” x 0.79”)





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

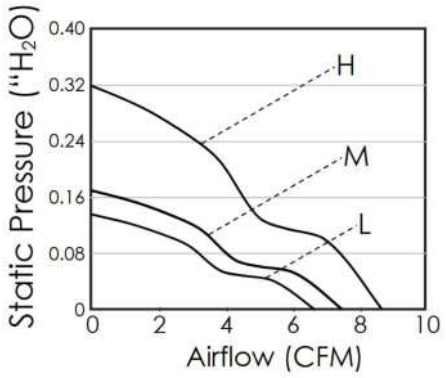
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

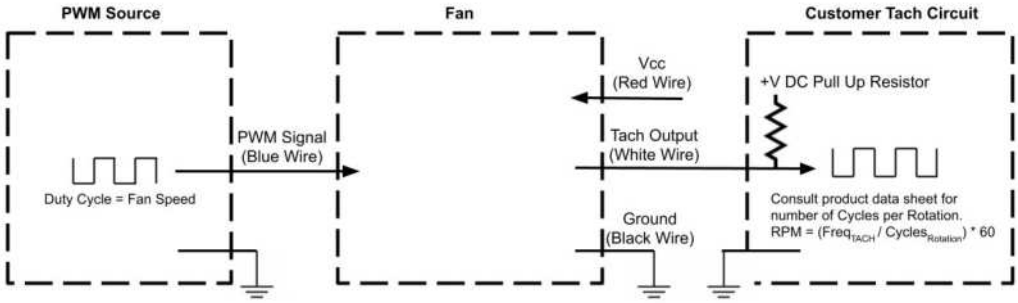
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
PWM Speed Control Input
Open Collector Tach Output

Weight: 0.07 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)
OD4020-05HB10A	5	4.5 ~ 5.5	1.80	0.23 (0.36)	7780	8.7	32.1	0.32
OD4020-05MB10A	5	4.5 ~ 5.5	1.15	0.20 (0.23)	6475	7.5	30.3	0.17
OD4020-05LB10A	5	4.5 ~ 5.5	0.90	0.16 (0.18)	5150	6.5	24.1	0.14
OD4020-12HB10A	12	8 ~ 13.8	2.52	0.10 (0.21)	8190	8.7	32.1	0.32
OD4020-12MB10A	12	8 ~ 13.8	1.20	0.08 (0.10)	6475	7.5	30.3	0.17
OD4020-12LB10A	12	8 ~ 13.8	0.96	0.06 (0.08)	5150	6.5	24.1	0.14
OD4020-24HB10A	24	14 ~ 26.4	2.16	0.07 (0.09)	8190	8.7	32.1	0.32
OD4020-24MB10A	24	14 ~ 26.4	1.68	0.05 (0.07)	6475	7.5	30.3	0.17
OD4020-24LB10A	24	14 ~ 26.4	1.20	0.04 (0.05)	5150	6.5	24.1	0.14



PWM Max High Voltage: 5V
PWM Max Sink Current: 5mA
PWM Frequency Range: 1KHz-40KHz
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.
Tach Max Pullup Voltage: Fan Vcc
Tach Max Sink Current: 5mA
Tach Cycles per Rotation: 2

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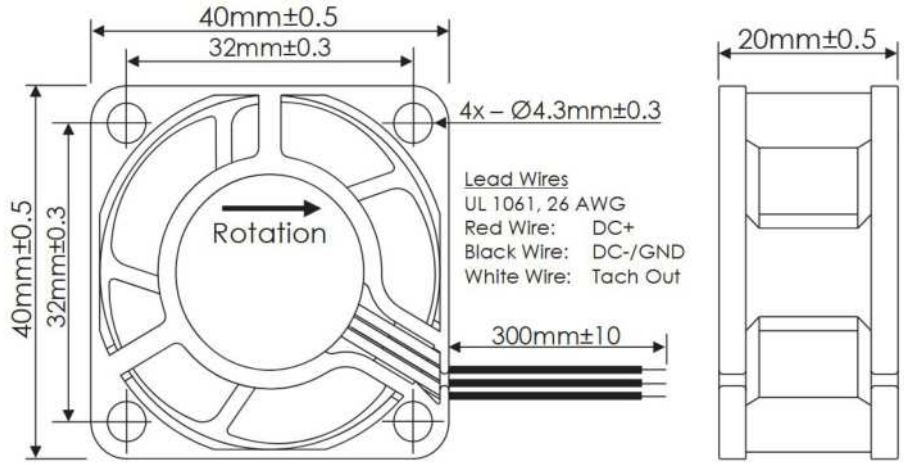
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Orion Fans
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OD4020 Series with Tach

DC Fans - 5, 12, 24V
40mm x 20mm (1.58” x 0.79”)





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

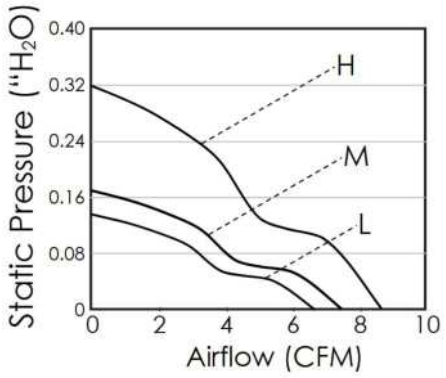
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

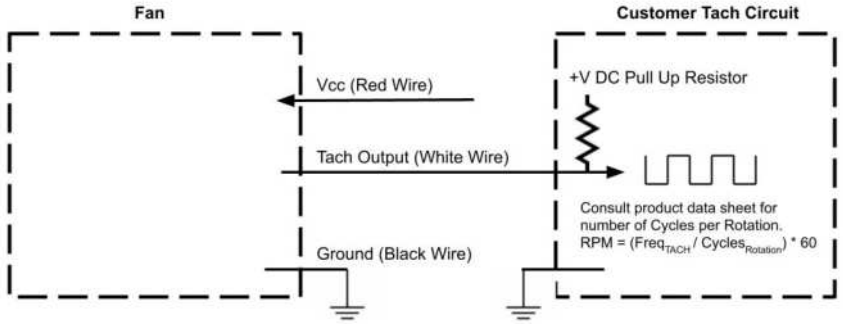
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
Open Collector Tach Output

Weight: 0.07 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)
OD4020-05HB01A	5	4.5 ~ 5.5	1.80	0.23 (0.36)	7780	8.7	32.1	0.32
OD4020-05MB01A	5	4.5 ~ 5.5	1.15	0.20 (0.23)	6475	7.5	30.3	0.17
OD4020-05LB01A	5	4.5 ~ 5.5	0.90	0.16 (0.18)	5150	6.5	24.1	0.14
OD4020-12HB01A	12	8 ~ 13.8	2.52	0.10 (0.21)	8190	8.7	32.1	0.32
OD4020-12MB01A	12	8 ~ 13.8	1.20	0.08 (0.10)	6475	7.5	30.3	0.17
OD4020-12LB01A	12	8 ~ 13.8	0.96	0.06 (0.08)	5150	6.5	24.1	0.14
OD4020-24HB01A	24	14 ~ 26.4	2.16	0.07 (0.09)	8190	8.7	32.1	0.32
OD4020-24MB01A	24	14 ~ 26.4	1.68	0.05 (0.07)	6475	7.5	30.3	0.17
OD4020-24LB01A	24	14 ~ 26.4	1.20	0.04 (0.05)	5150	6.5	24.1	0.14



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

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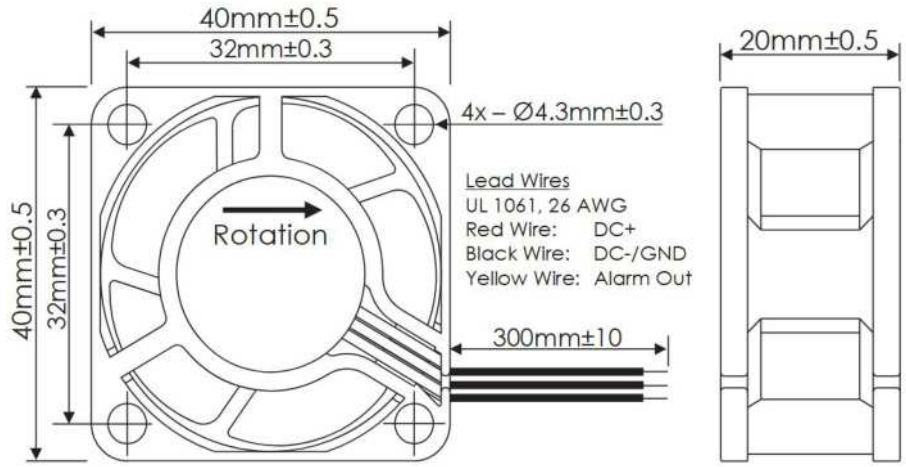
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OD4020 Series with Alarm

DC Fans - 5, 12, 24V
40mm x 20mm (1.58” x 0.79”)





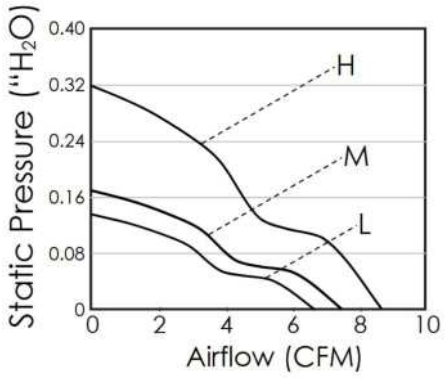
Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Wire Leads, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500V DC

Operating Temperature
-20°C ~ +65°C
Storage Temperature
-20°C ~ +75°C
Life Expectancy
65,000 Hours (L10 at 45°C)

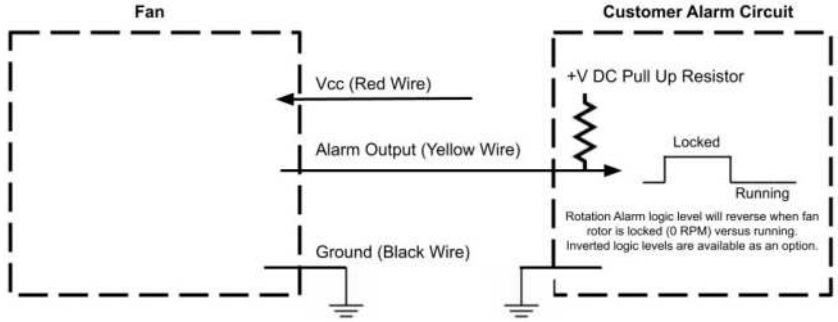
Installed Options
Open Collector Alarm Output

Available Options
Inverted Alarm State

Weight: 0.07 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)
OD4020-05HB02A	5	4.5 ~ 5.5	1.80	0.23 (0.36)	7780	8.7	32.1	0.32
OD4020-05MB02A	5	4.5 ~ 5.5	1.15	0.20 (0.23)	6475	7.5	30.3	0.17
OD4020-05LB02A	5	4.5 ~ 5.5	0.90	0.16 (0.18)	5150	6.5	24.1	0.14
OD4020-12HB02A	12	8 ~ 13.8	2.52	0.10 (0.21)	8190	8.7	32.1	0.32
OD4020-12MB02A	12	8 ~ 13.8	1.20	0.08 (0.10)	6475	7.5	30.3	0.17
OD4020-12LB02A	12	8 ~ 13.8	0.96	0.06 (0.08)	5150	6.5	24.1	0.14
OD4020-24HB02A	24	14 ~ 26.4	2.16	0.07 (0.09)	8190	8.7	32.1	0.32
OD4020-24MB02A	24	14 ~ 26.4	1.68	0.05 (0.07)	6475	7.5	30.3	0.17
OD4020-24LB02A	24	14 ~ 26.4	1.20	0.04 (0.05)	5150	6.5	24.1	0.14



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

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