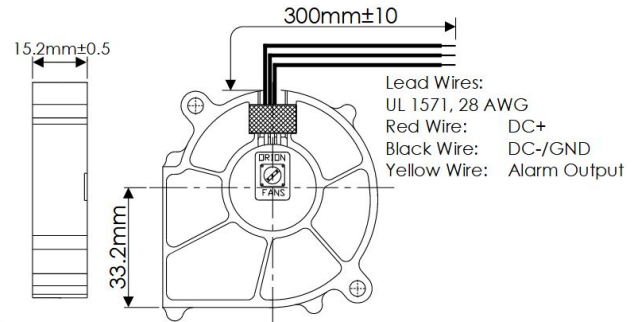
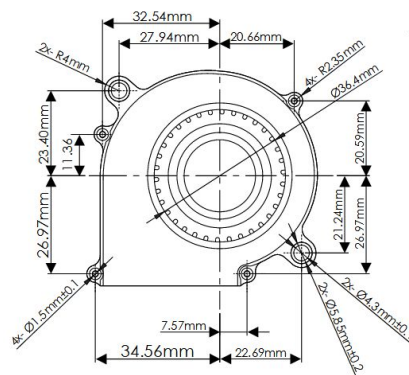




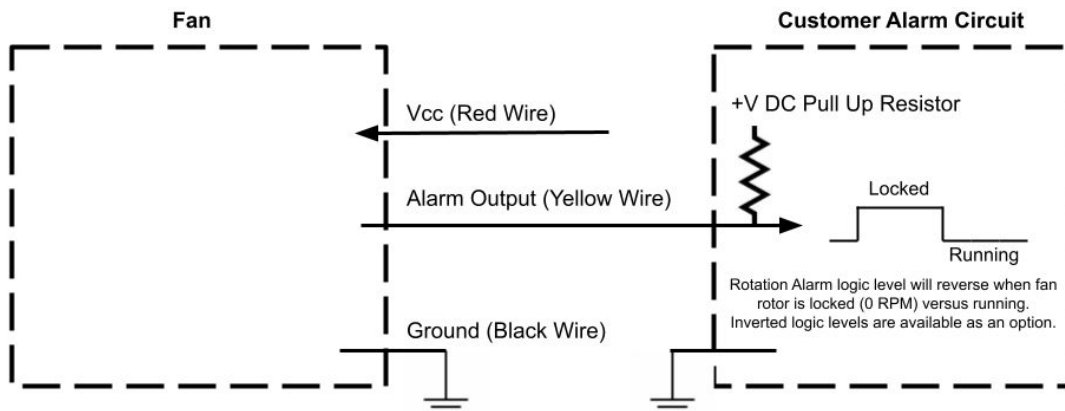
DC Blower - 12V  
60mm x 15mm (2.4" x 0.6")



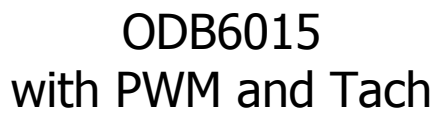
Frame	PBT, UL94 V-0 Plastic	<u>Operating Temperature</u> -20°C ~ +70°C  <u>Storage Temperature</u> -30°C ~ +80°C  <u>Life Expectancy</u> 70,000 Hours (L10 at 40°C)  <u>Installed Options</u> Open Collector Alarm Output  Weight: 0.06 lbs
Impeller	PBT, UL94 V-0 Plastic	
Connection	3x Wire Leads, 28 AWG	
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected	
Bearing System	Ball Bearings	
Dielectric Strength	500VDC/min, <1mA	
Insulation Resistance	≥10M Ohm @ 500 VDC	

Airflow (CFM)	Static Pressure (H <sub>2</sub> O)
0	0.80
1.5	0.70
3.0	0.55
4.5	0.35
6.0	0.15
7.2	0.00

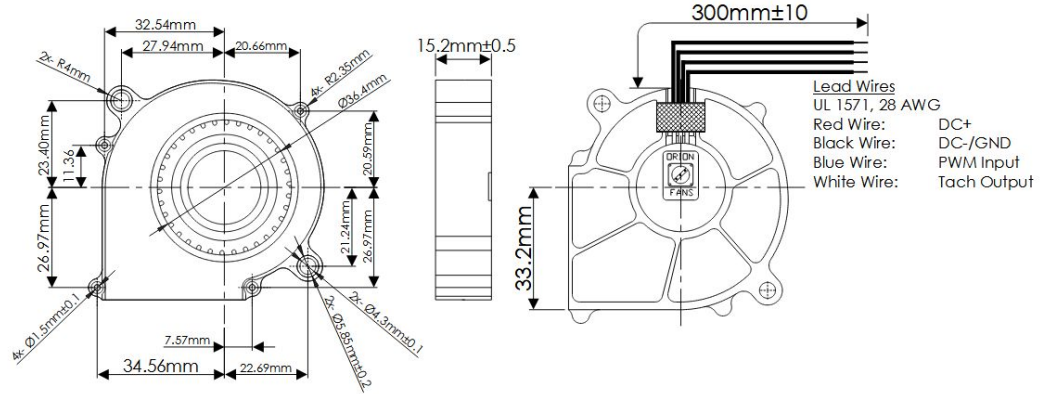
Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H <sub>2</sub> O)
ODB6015-12HHB02A	12	11 ~ 13.8	3.84	0.32	5000	6.9	46.2	0.80



Alarm Max Pullup Voltage: 12V  
Alarm Max Sink Current: 5mA  
Alarm ACTIVE (0 RPM) State: HIGH



DC Blower - 12V  
60mm x 15mm (2.4" x 0.6")



A line graph showing the relationship between Static Pressure (inches of water) and Airflow (CFM) for the 1000 CFM Model. The y-axis represents Static Pressure, ranging from 0 to 1.00 in increments of 0.20. The x-axis represents Airflow, ranging from 0 to 7.5 in increments of 1.5. The curve starts at approximately 0.80 inches of water static pressure at 0 CFM and decreases as airflow increases, reaching 0 inches of water static pressure at approximately 7.0 CFM.

Airflow (CFM)	Static Pressure ("H <sub>2</sub> O")
0	0.80
1.5	0.70
3.0	0.58
4.5	0.42
6.0	0.20
7.0	0.00

The diagram illustrates the connection between three components: the PWM Source, the Fan, and the Customer Tach Circuit.

- PWM Source:** A dashed box containing a square wave signal. A label indicates "Duty Cycle = Fan Speed". A "PWM Signal (Blue Wire)" is shown as an arrow pointing from the PWM Source to the Fan.
- Fan:** A dashed box representing the fan unit. It has three terminals:
  - Vcc (Red Wire):** Connected to the positive supply of the Customer Tach Circuit.
  - Tach Output (White Wire):** Connected to the tachometer input of the Customer Tach Circuit.
  - Ground (Black Wire):** Connected to the common ground of the Customer Tach Circuit.
- Customer Tach Circuit:** A dashed box representing the tachometer module. It includes:
  - A "+V DC Pull Up Resistor" connected between the Vcc and the Tach Output line.
  - An input signal waveform showing a square wave.
  - A formula for calculating RPM:  $RPM = (Freq_{TACH} / Cycles_{Rotation}) * 60$ .
  - A note: "Consult product data sheet for number of Cycles per Rotation."

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-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.	

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Orion Fans:

[ODB6015-12HHB02A](#) [ODB6015-12HHB10A](#)