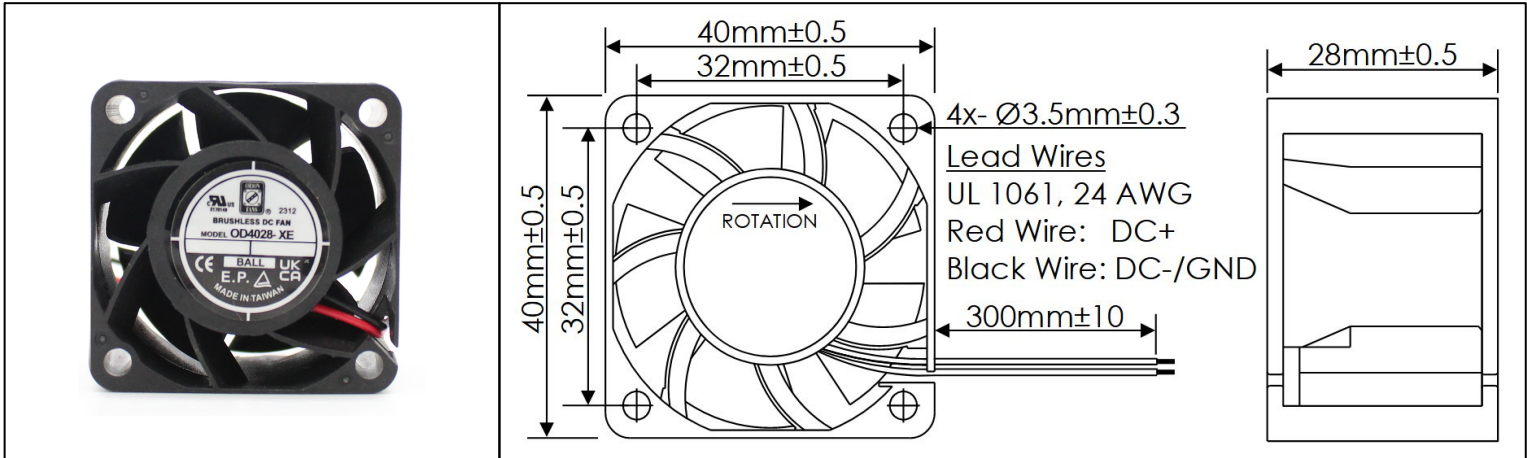


OD4028 XE Series



DC Fans - 12, 24V
40mm x 28mm (1.58" x 1.10")



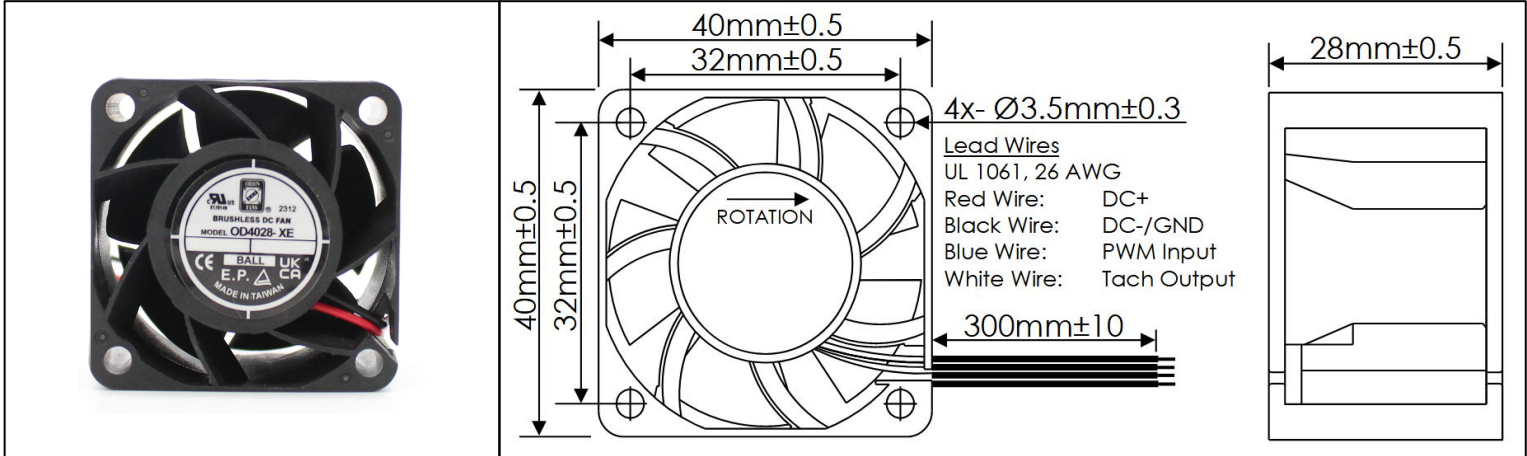
| | | | |
|-----------------------|---|--|--|
| Frame & Impeller | PBT, UL94 V-0 Plastic | <u>Operating Temperature</u> -20°C ~ +65°C | |
| Connection | 2x Lead Wires, 24 AWG | <u>Storage Temperature</u> -20°C ~ +75°C | |
| Motor | Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected | <u>Life Expectancy</u> 70,000 Hours (L10 at 40°C) | |
| Bearing System | Ball Bearing | <u>Available Options</u> Tachometer Output Alarm Output PWM Speed Control Input Thermal Speed Control 0-10V Speed Control IP Ratings | |
| Dielectric Strength | 500VDC/min, <1mA | Weight: 0.10 lbs | |
| Insulation Resistance | ≥10MΩ @500V DC | | |

| 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 (\"H2O) |
|---------------|--------------------------|--------------------------|--------------------------|---------------------------|-------------------|-------------------|-------------------|-----------------------------|
| OD4028-12HBXE | 12 | 8 ~ 13.8 | 16.8 | 1.40 | 22750 | 31.5 | 64.2 | 3.0 |
| OD4028-12MBXE | 12 | 8 ~ 13.8 | 15.6 | 1.30 | 20900 | 28.6 | 62.1 | 2.8 |
| OD4028-24HBXE | 24 | 14 ~ 26 | 15.6 | 0.65 | 22750 | 31.5 | 64.2 | 3.0 |
| OD4028-24MBXE | 24 | 14 ~ 26 | 14.4 | 0.60 | 20900 | 28.6 | 62.1 | 2.8 |

OD4028 XE Series with PWM and Tach

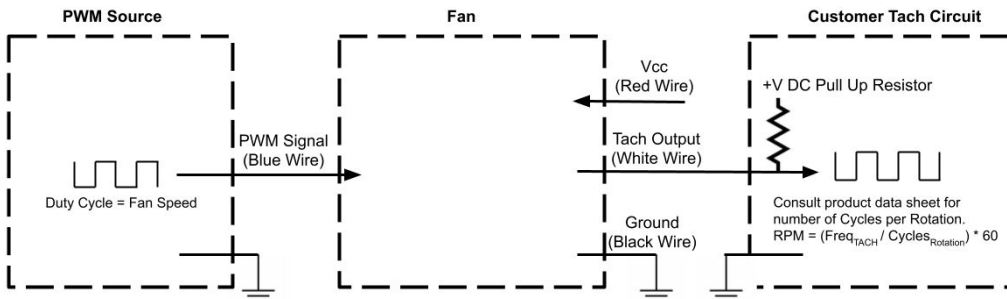


DC Fans - 12, 24V
40mm x 28mm (1.58" x 1.10")



| | | | |
|------------------------------|---|---|--|
| Frame & Impeller | PBT, UL94 V-0 Plastic | Operating Temperature -20°C ~ +65°C | |
| Connection | 4x Lead Wires, 26 AWG | Storage Temperature -20°C ~ +75°C | |
| Motor | Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected | Life Expectancy 70,000 Hours (L10 at 40°C) | |
| Bearing System | Ball Bearing | Installed Options PWM Speed Control Input Open Collector Tach Output | |
| Dielectric Strength | 500VDC/min, <1mA | Weight: 0.10 lbs | |
| Insulation Resistance | ≥10MΩ @500V DC | | |

| 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 ("H2O) |
|------------------|--------------------------|--------------------------|--------------------------|---------------------------|-------------------|-------------------|-------------------|----------------------------|
| OD4028-12HBXE10A | 12 | 8 ~ 13.8 | 16.8 | 1.40 | 22750 | 31.5 | 64.2 | 3.0 |
| OD4028-12MBXE10A | 12 | 8 ~ 13.8 | 15.6 | 1.30 | 20900 | 28.6 | 62.1 | 2.8 |
| OD4028-24HBXE10A | 24 | 14 ~ 26 | 15.6 | 0.65 | 22750 | 31.5 | 64.2 | 3.0 |
| OD4028-24MBXE10A | 24 | 14 ~ 26 | 14.4 | 0.60 | 20900 | 28.6 | 62.1 | 2.8 |



Tach Max Pullup Voltage: Fan Vcc
 Tach Max Sink Current: 5mA
 Tach Cycles per Rotation: 2
 PWM Maximum High Voltage: 5V
 PWM Minimum High Voltage: >2.7V
 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.