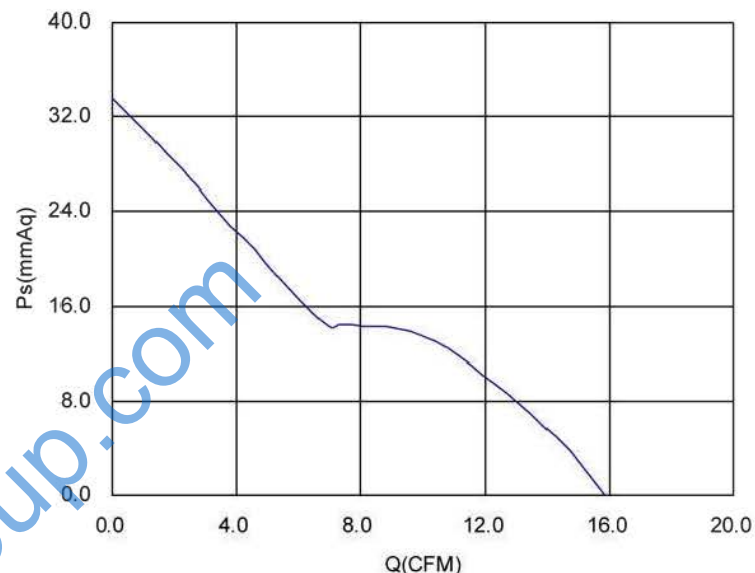


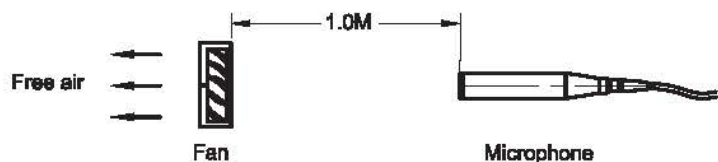
ITEMS	DESCRIPTION
Rated Voltage	D.C.12.0V
Operating voltage	D.C.5.0V~13.8V
Start up voltage	D.C.5.0V (At 25°C Power ON/OFF and 100% duty cycle)
Current	0.50A
Power	6.00W
Speed	15,000±10%rpm (At 25°C, To record speed after fan running normal, This time about 3~5minutes)
Air flow (at zero static pressure)	15.84CFM(0.449m ³ /min) Min:14.26CFM (0.404m ³ /min)
Air pressure (at zero air flow)	33.60mmH ₂ O (1.323inchH ₂ O) Min:27.22mmH ₂ O (1.071inchH ₂ O)
Acoustical noise	48.6dB(A) Max:53.5dB(A)
Life expectancy	70,000hrs continuous at 40°C, 15~65% relative humidity
Insulation resistance	Min 10Meg Ohm between Internal stator and lead wire (+) at 500VDC
Dielectric strength	5mA max at 600VAC 50Hz 1 second between frame and (+) terminal
Operating temperature and humidity	-10 to 70°C, 5 to 90% RH
Storage temperature and humidity	-40 to 70°C, 5 to 95% RH

PQ curve: (Rated Voltage or rated voltage at 100%PWM if applied)



Noise Test: (ISO10302)

- 1.Measurement within anechoic chamber under free air condition
- 2.Microphone is placed at a distance of 1m on the axis of air intake side
- 3.Chamber background noise max 6.7dB(A)
- 4.Using microphone: G.R.A.S 1/2 inch measure system 40AE+26CA or 1 inch low measure system 40HF
- 5.Test system: National Instrument NI-4474 data acquisition system
- 6.Acoustical noise at rated speed

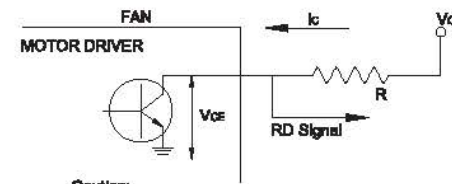


Output of Rotary Signal:

1.Output method- open collector method

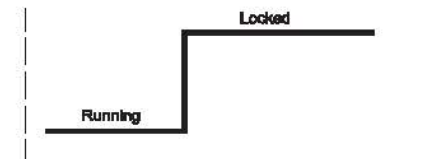
2. Circuit Specification:

- 2-1. Specification:
 Vcc =15V MAX
 Vce(sat)= 1.0V MAX
 Ic=5mA MAX
 R ≥ Vcc/Ic

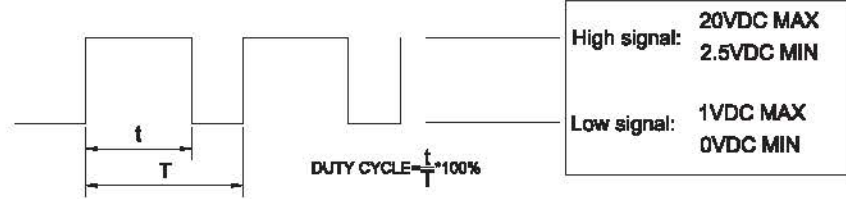


Caution:
The lead wire of (RD) signal cannot touch the lead wire of positive or negative

2-2. Alarm signal Waveform:



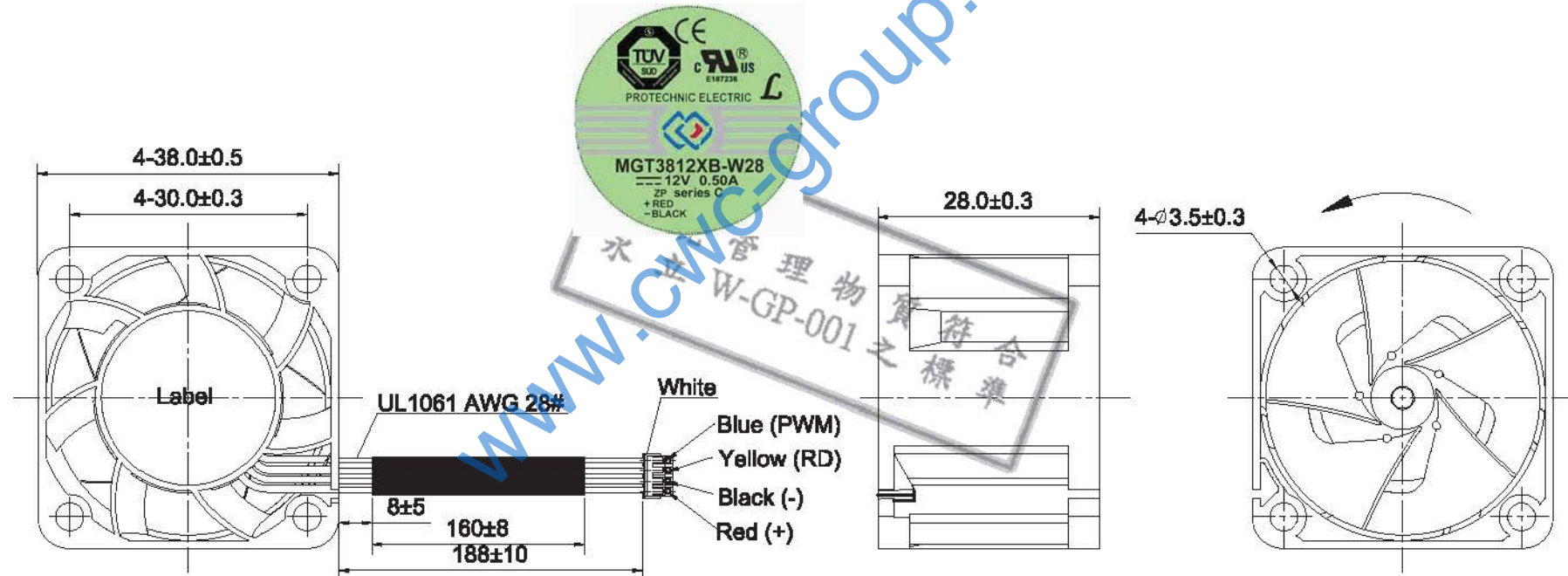
PWM Signal :



- 1.The control signal frequency of the fan shall be able 18~25kHz.
- 2.The preferred operating point for the fan is 20kHz.
- 3.At 100% duty cycle, the rotor will spin at maximum speed.
- 4.With control signal lead disconnected, the fan will spin at maximum speed.

ITEMS	DESCRIPTION	REMARKS	
Frame	PBT(30%GF) UL: 94V-0		
Impeller	PBT(30%GF) UL: 94V-0		
Weight	45g		
Bearing	Two ball bearings		
Housing	JWT A1501H00-4P	or equivalence	
Terminal	JWT A1501TOP-2	or equivalence	
Tube	Black heat shrink tube $\phi 3 \times 160$ mm		
Label	$\phi 21$ mm Material: PET		
Speed Vs duty cycle (12V)	Duty cycle(%)	0%	100%
	Speed (R.P.M)	1,500~3,500	15,000 \pm 10%

PWM test method: From 100% duty-cycle to 0% duty-cycle(At 25°C, rated voltage)



DC BRUSHLESS FAN		Unit	mm
	PROTECHNIC ELECTRIC CO.,LTD.		