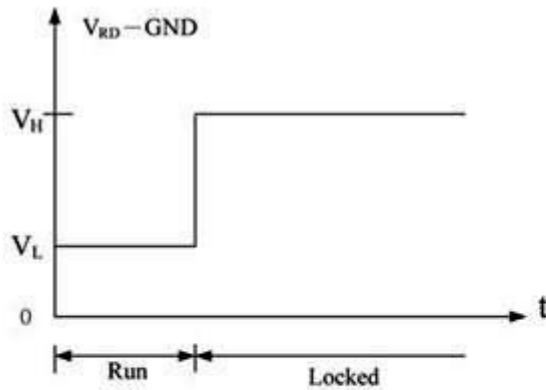


### Additional Special Functions:

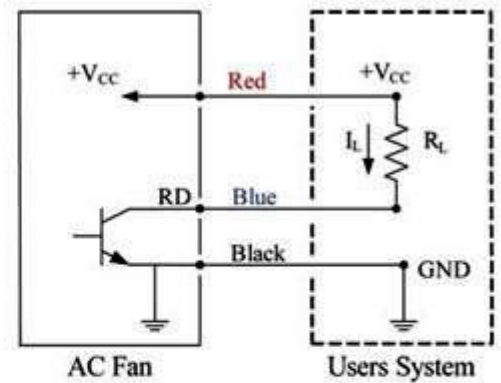
- The output of 3rd wire Signal-Rotation Detector Function (also called “Locked signal” or “Alarm Signal”):

Suffix basic part number with “-RD” or “RRD” for Rotation Detector Function.

(For AC fan motor only)



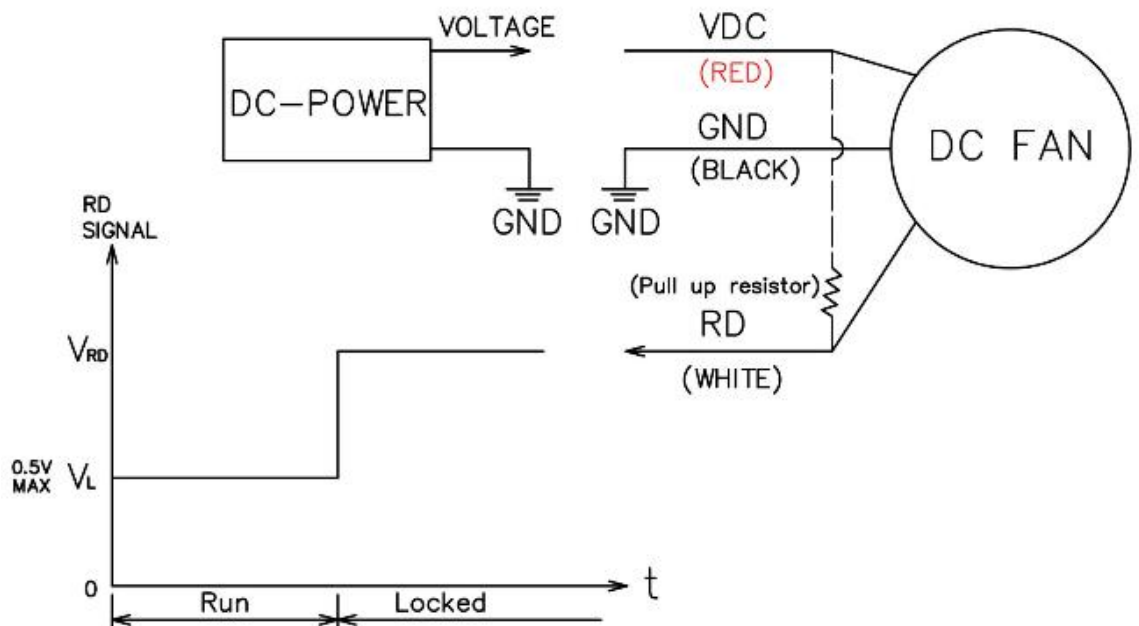
Code	RD	RRD
Run	V <sub>L</sub>	V <sub>H</sub>
Locked	V <sub>H</sub>	V <sub>L</sub>



V<sub>cc</sub> = +5 ~ 24 VDC

I<sub>L</sub> = 10mA (max) typical

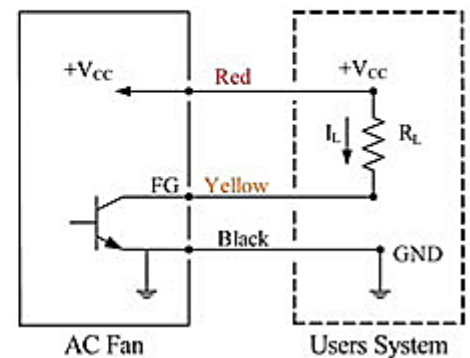
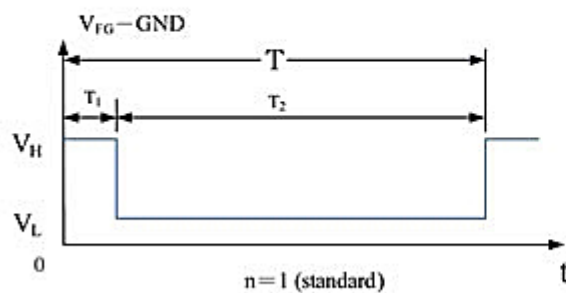
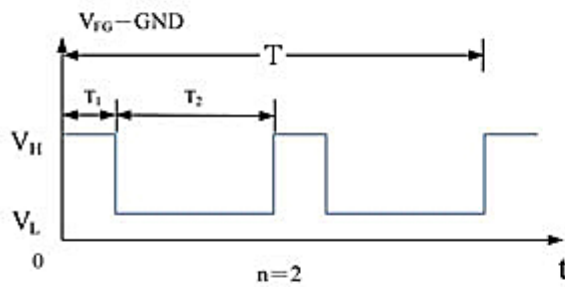
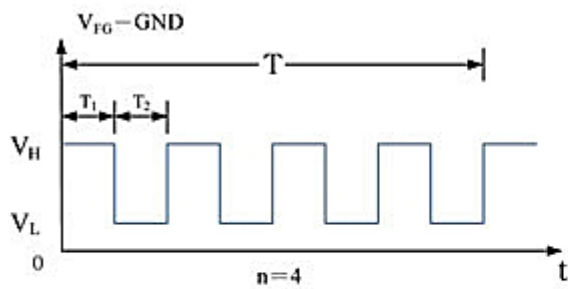
(For DC fan motor only)



2. The output of 3rd wire Signal-Frequency Generator Function (also called “Speed signal”):

Suffix basic part number with “-FG” for Frequency Generator Function.

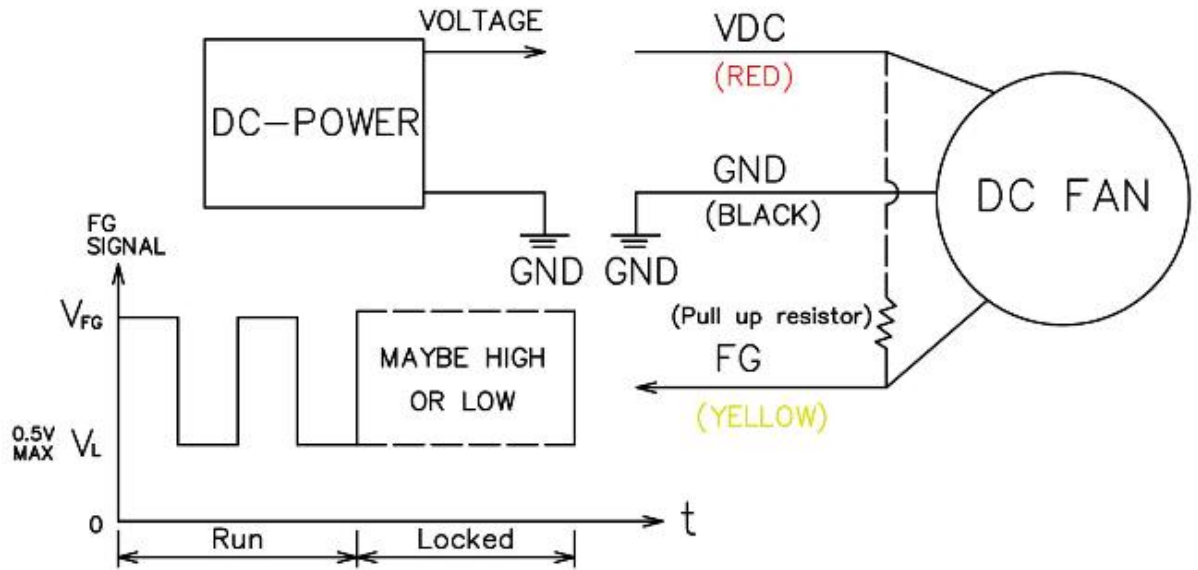
(For AC fan motor only)



$V_{CC} = +5 \sim 24 \text{ VDC}$   
 $I_L = 10 \text{ mA (max) Typical}$

$T \text{ (ms)} = (60 \times 1000) / \text{RPM}$   
 $T = n \times (T_1 + T_2)$   
 $n = 1 \text{ or } 2 \text{ or } 4 \text{ can be assigned by customer}$

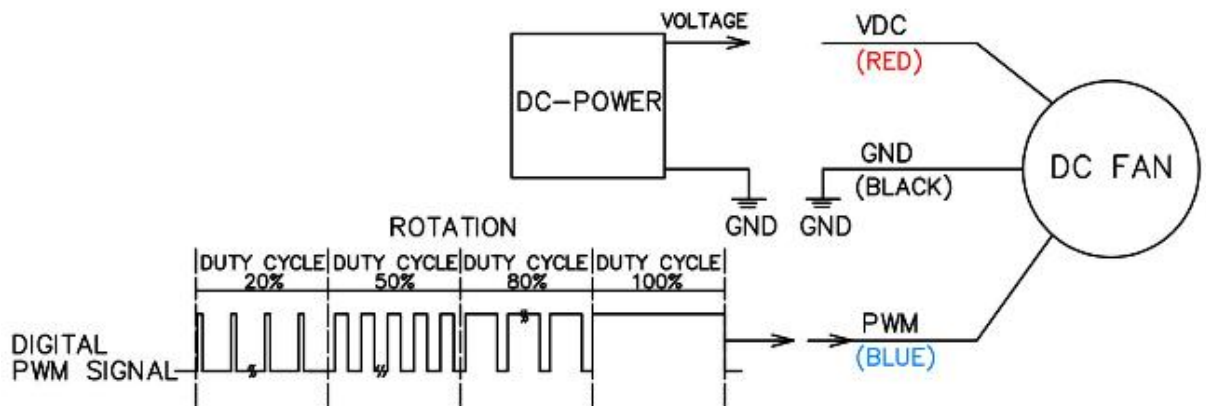
(For DC fan motor only)



3. The output of 3rd wire Signal- PWM Control (Pulse Width Modulation) Function:  
Controls the fan speed automatically via an external input signal.

Suffix basic part number with“-PWM”for PWM Control Function.

(For DC fan motor only)



4. The output of 3rd wire Signal- VC (Voltage Control) Function:

With this function the speed can be controlled by applying an external DC Voltage signal.

This voltage input may have any value from 0V to 10V(standard value is 0 to 5V).

The fan speed will vary linearly and is proportional to the % change of the "Vin" value, corresponding to the same % change of the maximum speed.

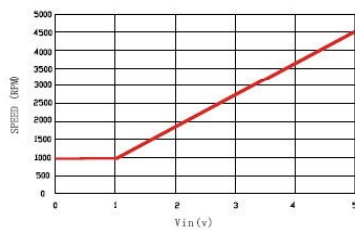
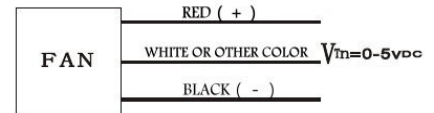


Fig: 12a

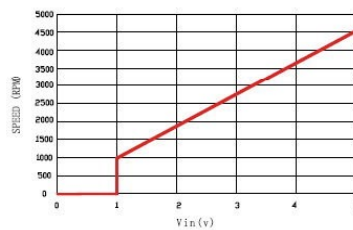


Fig: 12b

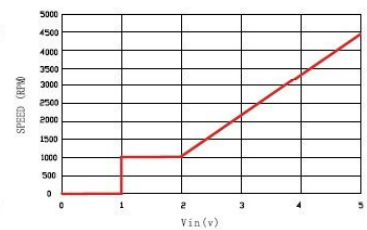


Fig: 12c

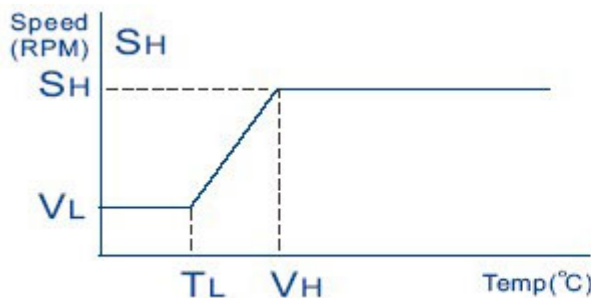
NOTE: can change the parameter depending on customer but some models cannot apply certain parameter.

5. Temperature Control:

Suffix basic part number with "-T" for Temperature for operating environments where noise and temperature are a consideration.

When the built in thermistor detects a drop in ambient temperature, the fan rpm will decrease resulting in a lower noise level and airflow rate.

Conversely, as the thermistor detects a rise in temperature, the noise level will increase relative to the rise in the fan's rpm's until the targeted temperature has been attained.



RPM of Temperature Control Fan vs. Temperature Change Curve

## 6. High Temperature Environments:

Suffix basic part number with “-HT” for High Temperature Fans in the following temperature operating ranges are available:

DC FAN : -10~90 °C	AC FAN : -10~180 °C
-14~194 °F	-14~356 °F

Fan Type	172	51	V24	H	B	F	-5	K	-FG	-IP54
Fan Type	Fan Size		Voltage	Speed	Bearing	Additional Information	Number of Impeller	Mold	Function	Ingress Protection
DVN : DC Axial DYB : DC Blower	Frame Size	Thickness	V5 (DC 5V) V12 (DC 12V) V24 (DC24V) V48 (DC 48V)	SH : Super Speed-High SM : Super Speed-Medium SL : Super Speed-Low H : High M : Medium L : Low XL : Extra Low XXL : Double Extra Low	B : Ball S : Sleeve X : Hypro	F : Frameless	5: 5 Impellers 9: 9 Impellers	Different Suffix for different mold	FG: FG Signal RD: RD Signal PWM: PWM Signal VC: Voltage Control TC:Temperature Control RRD: Reverse Rotation Detector	1st Digit: Solids 1~6 2nd Digit: Water 1~8