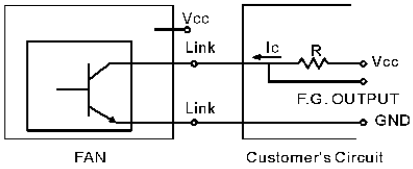
## Function

### ■ Frequency Generator

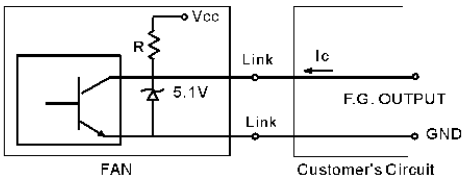
Generates a square wave out frequency equal to 2 periods per revolution for 4 poles fan and informs the user of the fan's running speed.

● Application 1



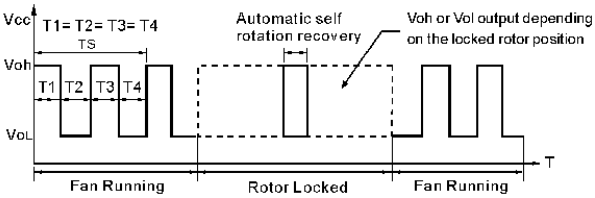

Vcc=From + 5 To +28 VDC ( Generally using + 12 or + 24VDC )
Ic=5 mA max.
R=V/I( Output "R" value calculation )

● Application 2



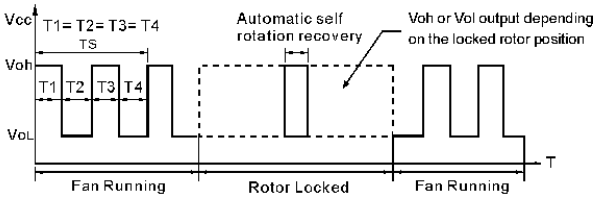

Vcc= From + 5 To +28 VDC ( Generally using + 12 or + 24VDC )
Ic= 5 mA max.
R ( type ) = 10K

● Output Waveform




◆ N=R.P.M
◆ Ts=60/N( Sec )
◆ Output Level
Voh= Vcc _10%
VoL=0~0.6V
Ic=5 mA max.

● Output Waveform

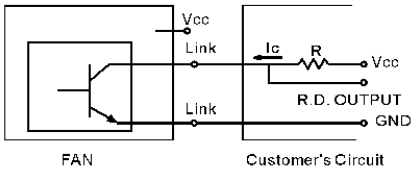



◆ N=R.P.M
◆ Ts=60/N( Sec )
◆ Output Level
Voh= 5.0V _0.5V
VoL=0~0.6V
Ic=5 mA max.

### ■ Rotation detector

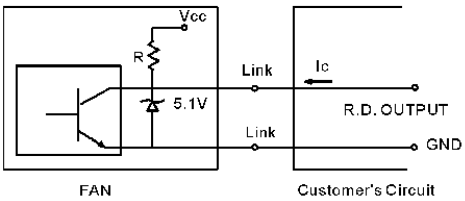
Detects whether the fan is running or has stopped by generating a high or low output signal.

● Application 1



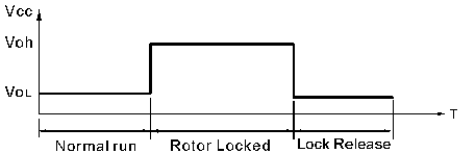

Vcc=From + 5 To +28 VDC ( Generally using + 12 or + 24VDC )
Ic=2 mA max.
R=V/I( Output "R" value calculation )

● Application 2



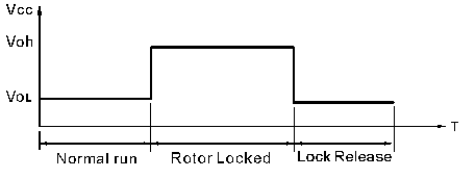

Vcc= From + 5 To +28 VDC ( Generally using + 12 or + 24VDC )
Ic= 5 mA max.
R ( type ) = 10K

● Output Waveform




◆ Output Level
Voh=Vcc _10%
VoL=0~0.6V
Icc=5 mA max.

● Output Waveform

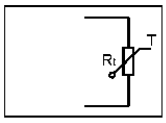



◆ Output Level
Voh=5.0V_0.5V
VoL=0~0.6V
Icc=5 mA max.

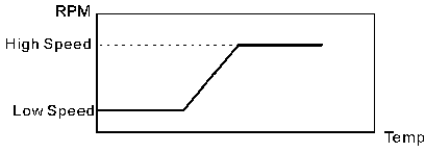
### ■ Temperature Control

Controls the fan speed via an thermistor which changes with the temperature of the task area where the thermistor is located.

● Application



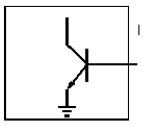

● **RPM Temperature curve**




### ■ Pulse width modulation

Controls the fan speed automatically via an external input Pulse Width Modulation signal.

● Application




◆ Input impedance 10KΩ
PWM Operating frequency is 25⊥5KHz
VIH MIN=3.3VDC
VIL MAX=0.4VDC

● RPM & Duty Cycle Curve