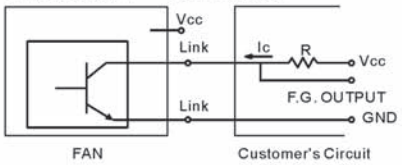
Function

■ Frequency Generator

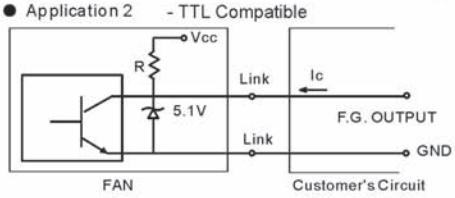
Generates a square wave out frequency equal to 2 periods per revolution for 4 poles fan and informs the user of the fan's running speed.

● Application 1 - Open Collector



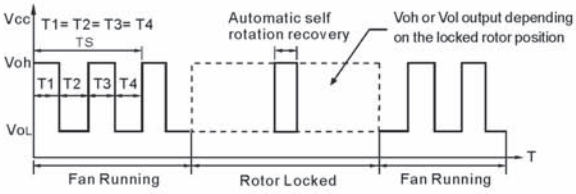
Vcc=From + 5 To +28 VDC Do not exceed fan supply voltage
Ic=5 mA max.
R=V/I(Output "R" value calculation)

● Application 2 - TTL Compatible



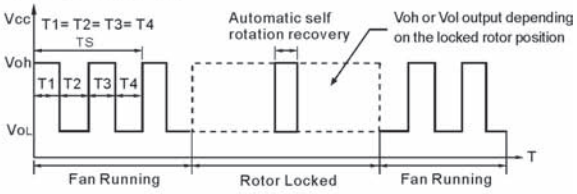
Ic= 5 mA max.

● 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

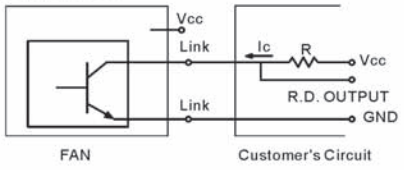


- N=R.P.M
- Ts=60/N(Sec)
- Output Level
  Voh= 5.0V±0.5V
  VoL=0~0.6V
  Ic=5 mA max.

■ Rotation detector

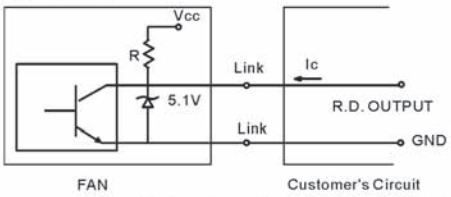
Detects whether the fan is running or has stopped by generation a high or low output signal.

● Application 1



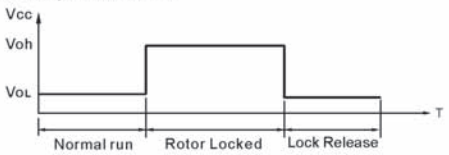
Vcc=From + 5 To +28 VDC (Generally using + 12 or + 24VDC)
Ic=2 mA max.
R=V/I(Output "R" value calculation)

● Application 2



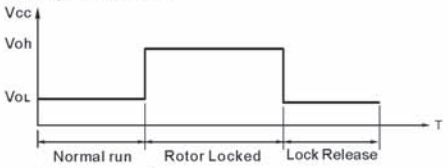
Vcc= From + 5 To +28 VDC (Generally using + 12 or + 24VDC)
Ic= 5 mA max.
R (type) = 10K

● Output Waveform



- Output Level
  Voh=Vcc±10%
  VoL=0~0.6V
  Icc=5 mA max.

● Output Waveform

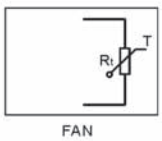


- Output Level
  Voh=5.0V±0.5V
  VoL=0~0.6V
  Icc=5 mA max.

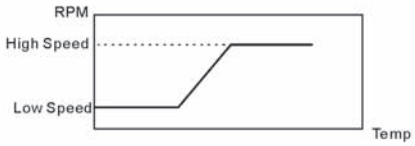
■ Temperature Control

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

● Application



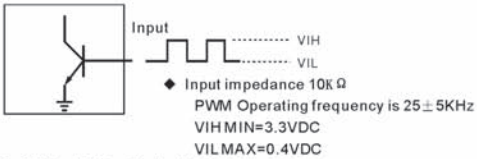
● **RPM Temperature curve**



■ 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