■ Frequency Generator(FG)
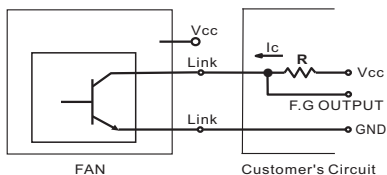
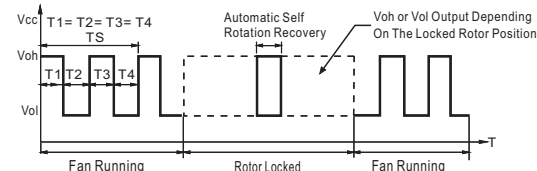Generates a square wave output frequency equal to 2 periods per revolution for a 4 poles fan and informs the

● Application 1
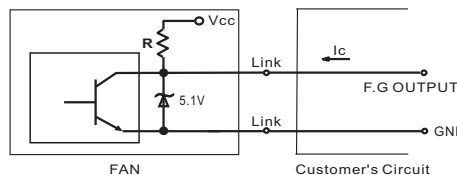

Vcc=From + 5 To + 80 VDC (Generally using + 12 or + 24VDC)

Ic=5 mA (Max.)

R≥ V/I (Output "R" value calculation)

● Output Waveform

◆ N=R.P.M
◆ Ts=60/N(Sec)
◆ Output Level
  Voh= Vcc±10%
  VoL=0~0.6V
  Ic=5 mA (Max.)

● Application 2

Vcc=From + 5 To + 80 VDC (Generally using + 12 or + 24VDC)

Ic=5 mA (Max.)

R (type) = 10K

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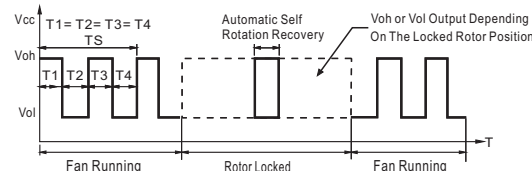
◆ N=R.P.M
◆ Ts=60/N(Sec)
◆ Output Level
  Voh= 5.0V±0.5V
  VoL=0~0.6V
  Ic=5 mA (Max.)

■ Rotation Detector(RD)

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

● Application 1
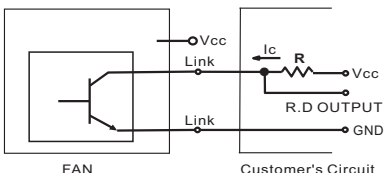
Vcc=From + 5 To + 28 VDC (Generally using + 12 or + 24VDC)

Ic=5 mA (Max.)

R≥ V/I (Output"R"value calculation)

● Output Waveform

◆ Output Level
  Voh=Vcc±10%
  VoL=0~0.6V
  Ic=5 mA (Max.)

● Application 2

Vcc=From + 5 To + 28 VDC (Generally using + 12 or + 24VDC)
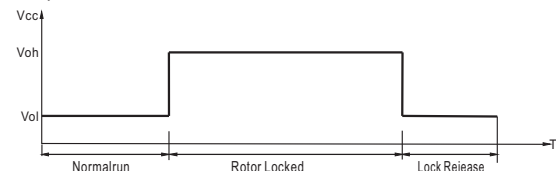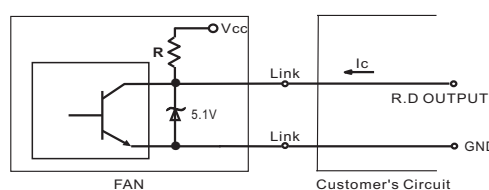
Ic=5 mA (Max.)

R (type) = 10K

● Output Waveform
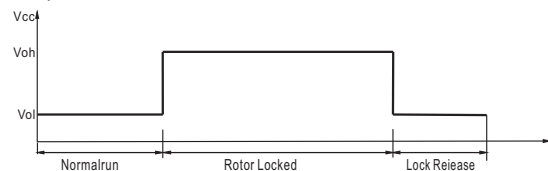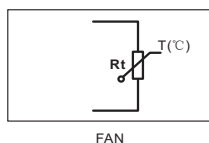

◆ Output Level
  Voh= 5.0V±0.5V
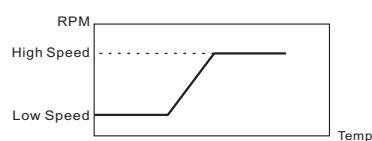 VoL=0~0.6V
  Ic=5 mA (Max.)

■ Thermal Control(TC)

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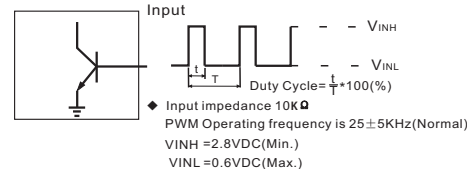
● Application

● RPM Temperature curve

■ Pulse Width Modulation(PWM)

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

● Application

Duty Cycle=$\frac{t}{T}$*100(%)

◆ Input impedance 10KΩ
PWM Operating frequency is 25±5KHz(Normal)
VINH =2.8VDC(Min.)
VINL =0.6VDC(Max.)

● RPM & Duty Cycle Curve