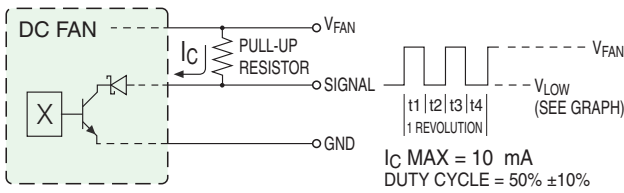


Options

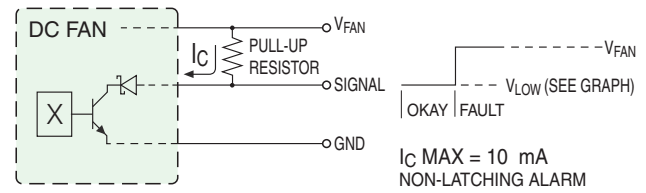
Model Name Suffix		
Speed-Stable Fans	Free-Running Fans	Description
-01	-51	No optional features: Color-coded power leads (red +, black -) with stripped ends.
-02	-52	Open-collector tachometer circuit, two square wave pulses per revolution, 50 percent duty cycle, terminated in a third lead wire. Standard lead wire color is yellow.
-03	-53	Open-collector, non-latching, low-pass/high-fail locked rotor alarm circuit terminated in a third lead wire. Standard lead wire color is yellow.
-04	-54	Open-collector, low-pass/high-fail, trip-point alarm circuit terminated in a third lead wire; non-latching alarm is activated at specified low-speed threshold (70 percent of fan's nominal operating speed, standard). Standard lead wire color is yellow.
-05	-55	Open-collector tachometer and non-latching, low-pass/high-fail locked rotor alarm circuit terminated in a third lead wire; two square wave pulses per revolution, 50 percent duty cycle, under no-fault conditions. Standard lead wire color is yellow.
-06	-56	Pulse-width modulated speed control circuit terminated in a third lead wire. Standard lead wire color is blue.
-07	-57	PWM speed control circuit (option -06 or -56) terminated in a third lead wire (standard = blue) and an open-collector, tachometer (option -02 or -52) terminated in a fourth lead wire (standard = yellow).
-08	-58	PWM speed control circuit (option -06 or -56) terminated in a third lead wire (standard = blue) and an open-collector, non-latching, low-pass/high-fail locked rotor alarm circuit (option -03 or -53) terminated in a fourth lead wire (standard = yellow).
-09	-59	PWM speed control circuit (option -06 or -56) terminated in a third lead wire (standard = blue) and an open-collector, non-latching, low-pass/high-fail, trip-point alarm circuit (option -04 or -54) terminated in a fourth lead wire (standard = yellow).
-10	-60	Thermal speed control circuit employs an NTC thermistor mounted on the housing of the fan; the speed control profile requires specification of low-temperature operating speed (rpm), low-speed threshold (°C) and high-speed threshold (°C).
-11	-61	Thermal speed control circuit (option -10 or -60) and an open-collector tachometer circuit (option -02 or -52) terminated in a third lead wire (standard = yellow).
-12	-62	Thermal speed control circuit (option -10 or -60) and an open-collector, non-latching, low-pass/high-fail locked rotor alarm circuit (option -03 or -53) terminated in a third lead wire (standard = yellow).
-13	-63	Thermal speed control circuit with pulse-width modulated speed control: Thermal control profile, using an NTC thermistor mounted on the housing of the fan, can be tuned to application requirements by PWM input terminated in a third lead wire (standard = blue).
-14	-64	Thermal speed control with PWM control (option -13 or -63) terminated in a third lead wire (standard = blue), and an open-collector, tachometer (option -02 or -52) terminated in a fourth lead wire (standard = yellow).
-15	-65	PWM speed control circuit (option -06 or -56) terminated in a third lead wire (standard = blue) and an open-collector, non-latching, inverse (high-pass/low-fail) locked rotor alarm circuit terminated in a fourth lead wire (standard = yellow).

™ UltraFlo is a brand trademark of Nidec Corporation.

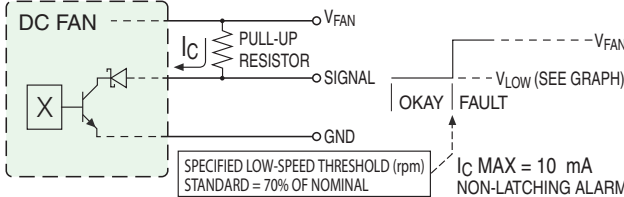
OPEN-COLLECTOR TACHOMETER



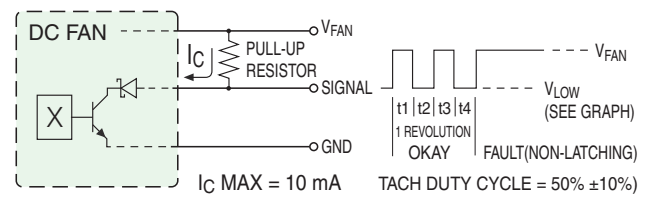
OPEN-COLLECTOR LOCKED ROTOR ALARM



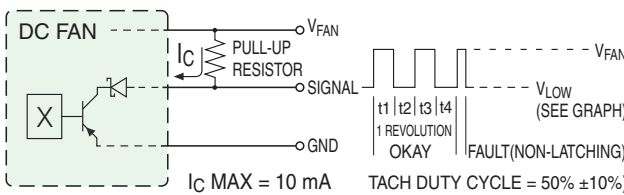
OPEN-COLLECTOR TRIP-POINT ALARM



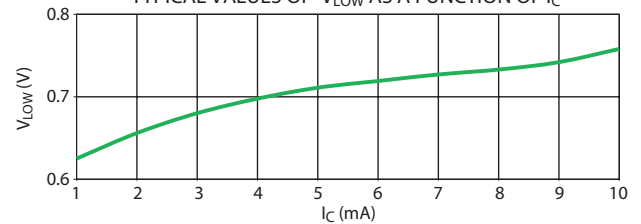
OPEN-COLLECTOR TACH/LOCKED ROTOR ALARM



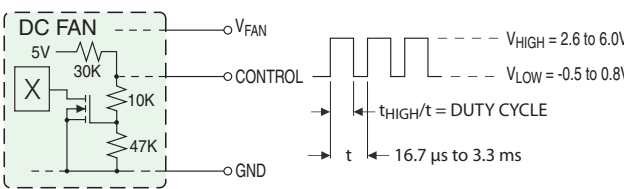
OPEN-COLLECTOR TACH/INVERSE LOCKED ROTOR ALARM



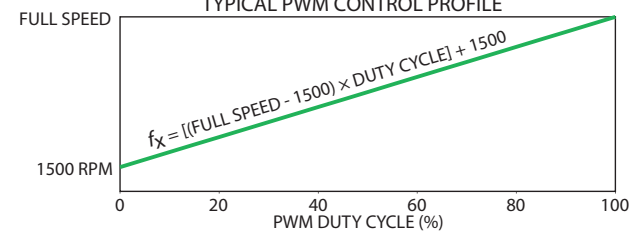
TYPICAL VALUES OF V_{LOW} AS A FUNCTION OF I_C



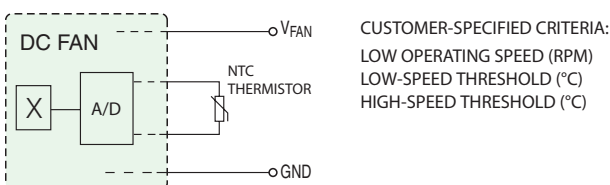
PULSE-WIDTH MODULATED SPEED CONTROL



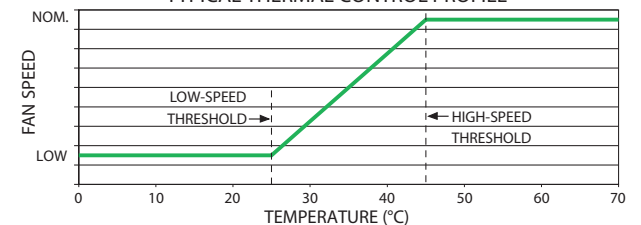
TYPICAL PWM CONTROL PROFILE



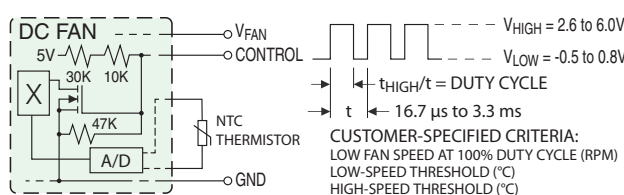
THERMAL SPEED CONTROL



TYPICAL THERMAL CONTROL PROFILE



THERMAL/PWM SPEED CONTROL



TYPICAL THERMAL/PWM CONTROL PROFILES

