

DC SENSOR FANS

Importance of Sensor Fans :

DC Sensor Fans have a function of outputting signal, when the fan motor is stopped. By the warning signal, such a system is rather widely employed as can cut off the main power supply.

There are three types of output signal. Select the most suitable type for your system. Sensor Lead color is YELLOW.

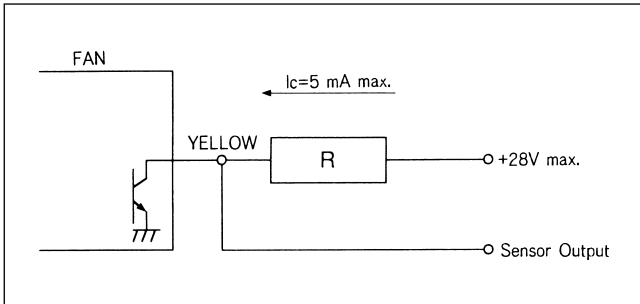
Sensor Types :

① Motor Locking Detect type (Model Code . .S) :

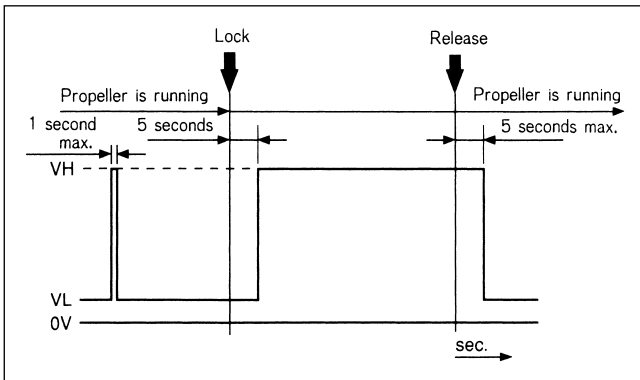
Output level is in <L> when propeller is running, but within 5 seconds from propeller stop, the level is switched to <H>.

Then, if the locking is released, also within 5 seconds, it will start running automatically (<H> <L> in 5 seconds).

1. Output: Open collector
2. Specification: $V_{CE} = 28V \text{ max.}$
 $I_C = 5 \text{ mA max.}$
 $(V_{CE(SAT)} = 0.4V \text{ max.})$



3. Output Wave From :

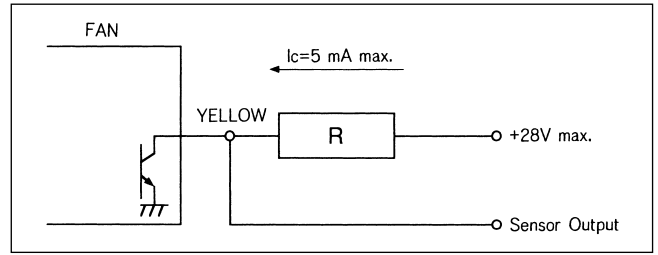


* At power ON, it can be in <H> for hundreds milli-seconds.

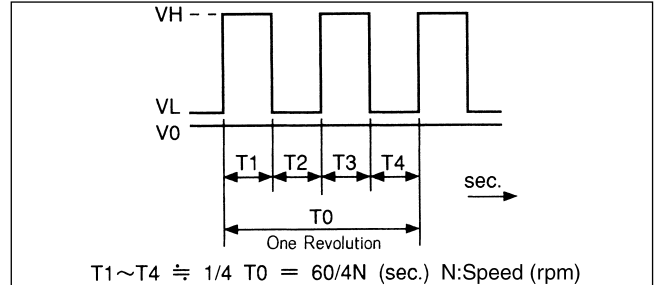
② Pulse Output type (Model Code . .P) :

When the propeller is running, 2 rectangular pulses per revolution are output. But when propeller locked, signal <H> or <L> which ever can depend on location of propeller, is output.

1. Output: Open collector
2. Specification : $V_{CE} = 28V \text{ max.}$
 $I_C = 5 \text{ mA max.}$
 $(V_{CE(SAT)} = 0.4V \text{ max.})$



3. Output Wave From :

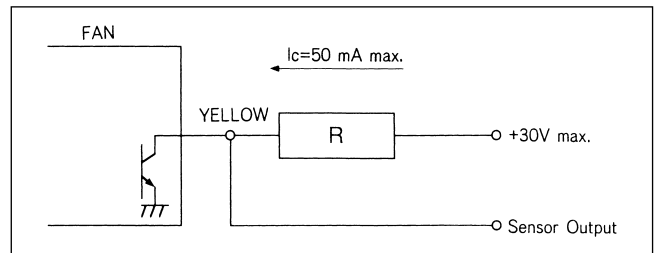


③ Speed detect type (Model Code . .Q) :

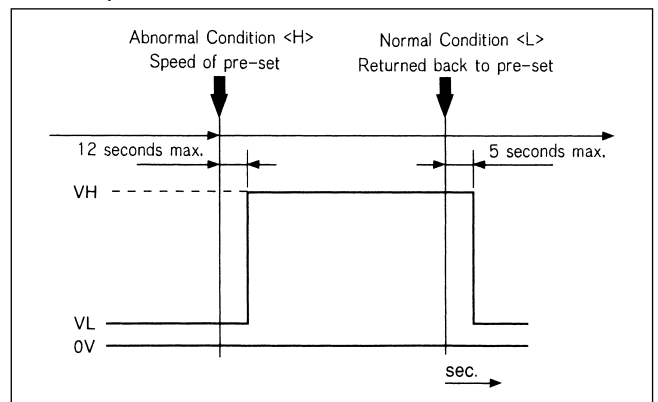
<H> signal is output when propeller speed comes down slower than preset speed. But when the speed is returned back to the preset speed, signal <L> is output. (the reversed output signal between <H> and <L> above mention, also available by request.

; model code..SQ)

1. Output: Open collector
2. Specification: $V_{CE} = 30V \text{ max.}$
 $I_C = 50 \text{ mA max.}$
 $(V_{CE(SAT)} = 0.4V \text{ max.})$



3. Output Wave Form :



Preset Speed :

For FULL SPEED: $1500 \pm 300 \text{ r/min}$ ($1700 \pm 340 \text{ r/min}$, MADC, PADC, DBDC, FMDC)

For HALF SPEED: $700 \pm 300 \text{ r/min}$

Reset Speed :

For FULL SPEED: 2000 r/min, min.

For HARF SPEED: 1000 r/min, min.