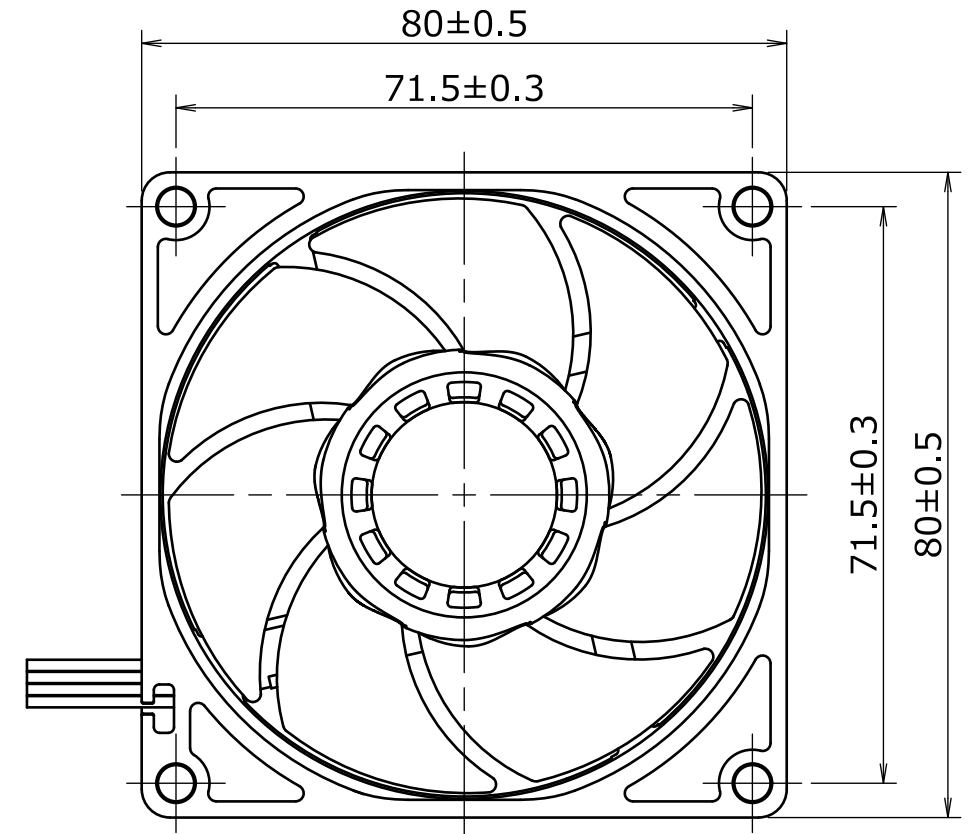
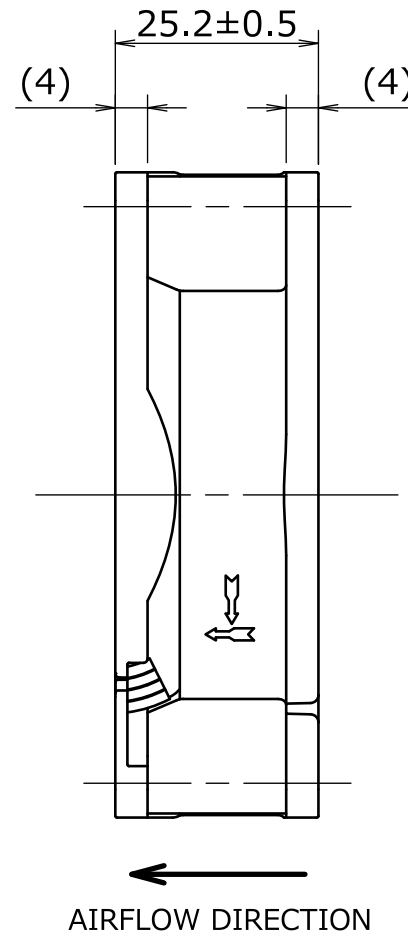
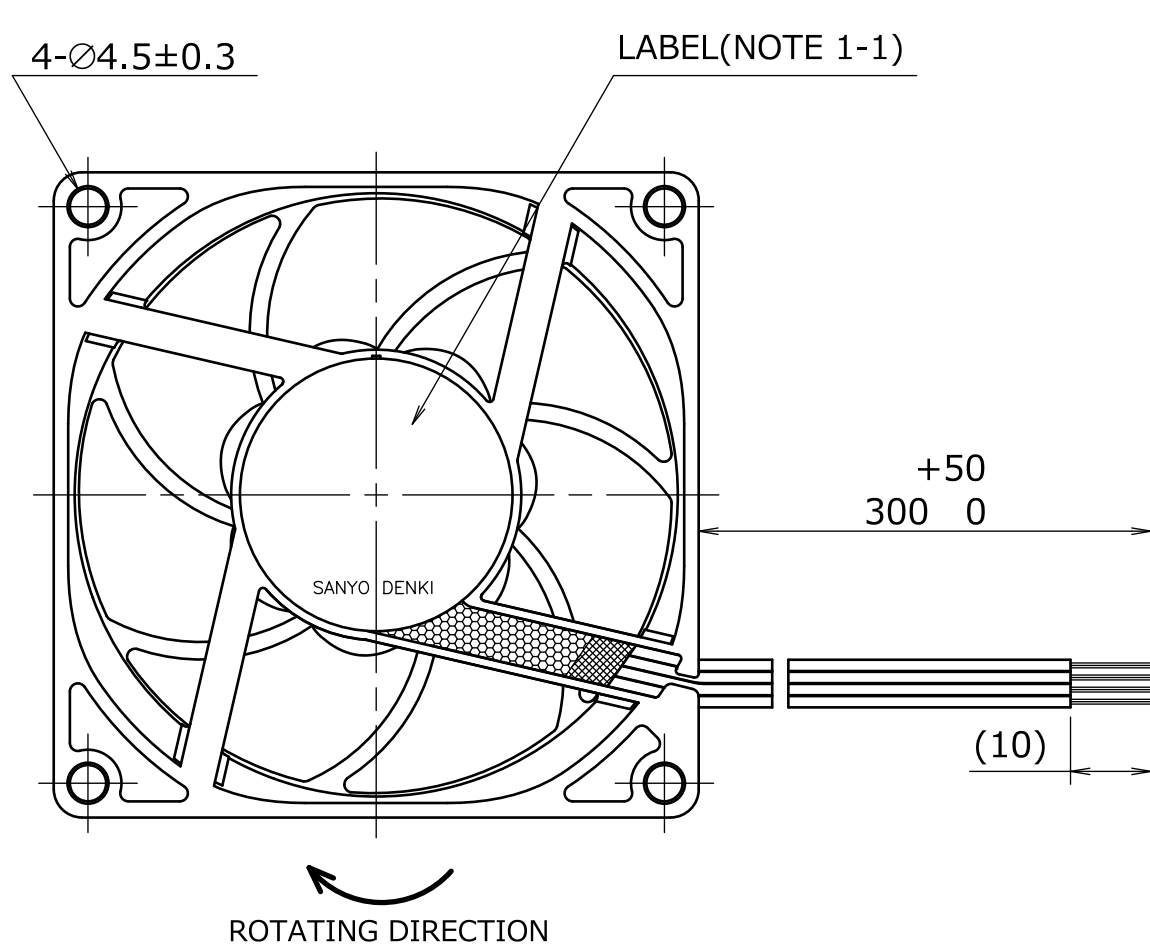


1. DIMENSIONS AND PARTS LIST

<DIMENSIONS>



<LEAD WIRE CONNECTION TABLE>		
FAN		
SIGNAL	LEAD WIRE	COLOR
+	UL1430 AWG26	RED
GND	UL1430 AWG26	BLACK
PWM	UL1430 AWG26	BROWN
SENSOR	UL1430 AWG26	YELLOW

NOTE 1-1. PRINT PRODUCT NAME, MODEL No., MANUFACTURER, AND MANUFACTURED DATE ETC.
品名, 型名, 製造会社名 及び 製造年月日等を表示する。

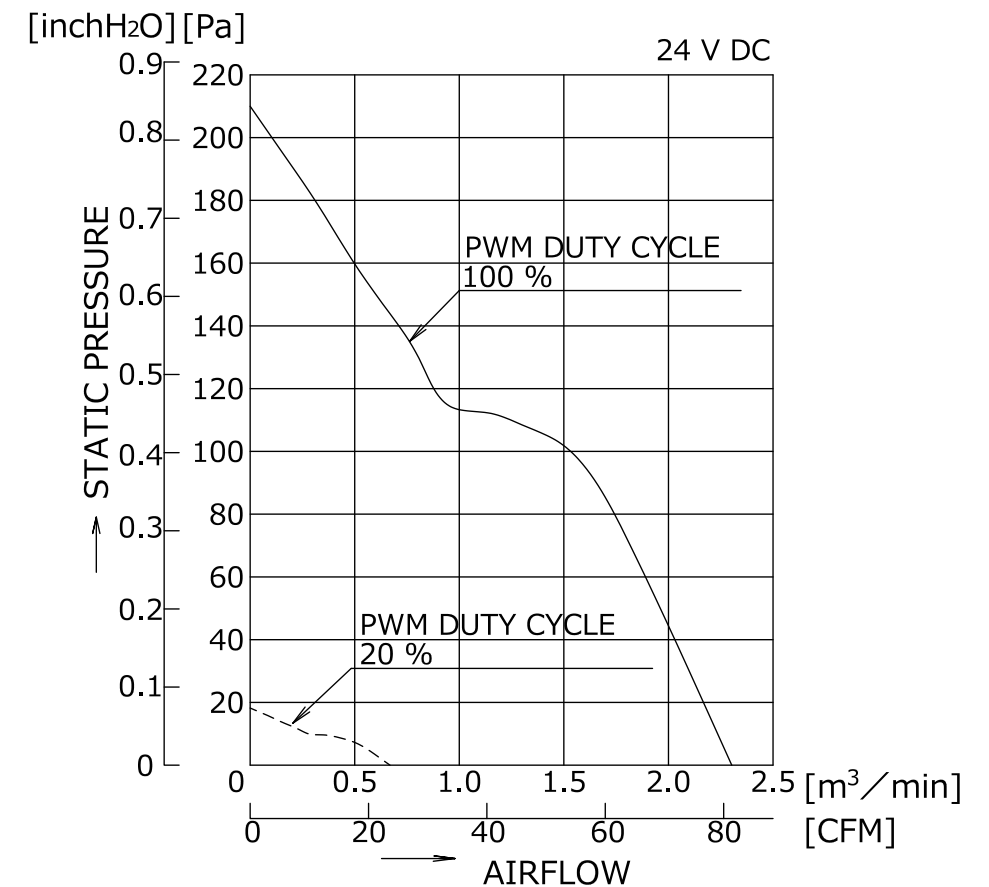
	ECN No.	名称 Title
	E0204670	San Ace 80W (9WPA)
単位 Unit	新規 New Design	RIBBED/PULSE_SENSOR/PWM_CONTROL
mm	T.KAISE 20-10-27	
尺度 Scale	図面番号 Dwg. No.	9WPA0824P4G201
-	-	Rev. B
SANYO DENKI		承認 Approved By
		T.IKEDA
A 3 G - P 5		20-11-13
承認 Approved By	審査 Checked By	設計 Designed By
T.IKEDA	M.TAKAKUWA	T.KAISE
20-11-13	20-11-12	20-11-12
Group	User	Page
D12K	E0	1/4

2. DESCRIPTION AND AIRFLOW-STATIC PRESSURE CHARACTERISTICS EXAMPLE

<DESCRIPTION>

ITEM	UNIT	DESCRIPTION		
PWM DUTY CYCLE	%	100	20	0
RATED VOLTAGE	V DC	24		
OPERATING VOLTAGE RANGE	V DC	21.6 ~ 26.4		
MAX. AIRFLOW (NOTE 2-2)	m ³ /min (CFM)	2.32 (81.9)	0.67 (23.6)	-
MAX. STATIC PRESSURE (NOTE 2-2)	Pa (inchH ₂ O)	210 (0.84)	18.2 (0.073)	-
RATED CURRENT (NOTE 2-2)	A	0.36	0.05	0.04 MAX.
RATED SPEED	min ⁻¹	8250±825	2400±720	NO ROTATION
INSULATION RESISTANCE (NOTE 2-3)	-	10 MΩ MIN. AT 500 V DC		
DIELECTRIC STRENGTH (NOTE 2-3)	-	1 MINUTE AT 500 V AC, 50/60 Hz		
OPERATING TEMPERATURE	℃	-40 ~ 70		
STORAGE TEMPERATURE	℃	-40 ~ 70		
EXPECTED LIFE	-	40,000 h / 60 °C (L10, CONTINUOUS OPERATION)		
SOUND PRESSURE LEVEL (NOTE 2-2, 2-4)	dB(A)	54	21	-
MASS	g	APPROX. 130		
MATERIAL	-	FRAME, IMPELLER : PLASTICS		
BEARING SYSTEM	-	2 BALL BEARINGS		
CONTROL TERMINAL	-	SOURCE CURRENT: 1 mA MAX. AT CONTROL VOLTAGE 0 V		
	-	SINK CURRENT : 1 mA MAX. AT CONTROL VOLTAGE 5.25 V		
	-	CONTROL TERMINAL VOLTAGE : 5.25 V MAX. (OPEN CIRCUIT)		
IP CODE	-	IP68 (IEC 60529:2001)		

<AIRFLOW-STATIC PRESSURE CHARACTERISTICS EXAMPLE>



- NOTE 2-1. VALUES FOR EACH CHARACTERISTIC ARE AT ROOM TEMPERATURE AND NORMAL HUMIDITY.
諸特性は常温、常湿での値。
- 2-2. UNSPECIFIED VALUE IS THE NOMINAL VALUE.
指定なき値は標準値。
- 2-3. MEASURED BETWEEN LEAD WIRE CONDUCTORS AND FRAME.
リード線導体部とフレームとの間。
- 2-4. MEASURED AT 1 m FROM THE AIR INLET.
ファン吸込側より1 mにて測定する。
- 2-5. MOTOR IS PROTECTED FROM DAMAGE OF LOCKED ROTOR CONDITION AT THE OPERATING VOLTAGE.
DO NOT LOCK ROTOR OUTSIDE OF OPERATING VOLTAGE.
ファン拘束時焼損の恐れはない。使用電圧範囲外でファンを拘束しないこと。

2-6. ALL ELECTRICAL PARTS IN THIS FAN MOTOR HAVE BEEN COATED WITH A LAYER OF RESIN.

本ファンモータは、活電部に樹脂コーティングを施しています。

	ECN No. E0204670	名称 Title San Ace 80W (9WPA) RIBBED/PULSE_SENSOR/PWM_CONTROL
	単位 Unit mm	新規 New Design T.KAISE 20-10-27
尺度 Scale -	図面番号 Dwg. No.	9WPA0824P4G201
		承認 Approved By T.IKEDA 20-11-13
		審査 Checked By M.TAKAKUWA 20-11-12
		設計 Designed By T.KAISE 20-11-12
Group D12K	User E0	Page 2/4

3. SENSOR SPECIFICATIONS

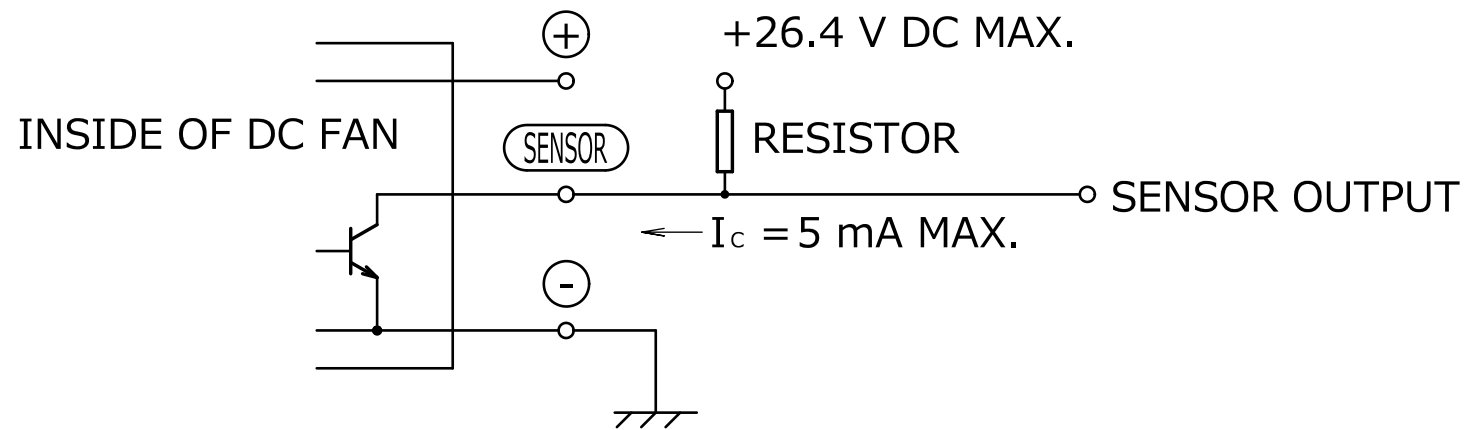
<OUTPUT CIRCUIT>

OPEN COLLECTOR

<SPECIFICATIONS>

$V_{CE} = +26.4 \text{ V DC MAX.}$

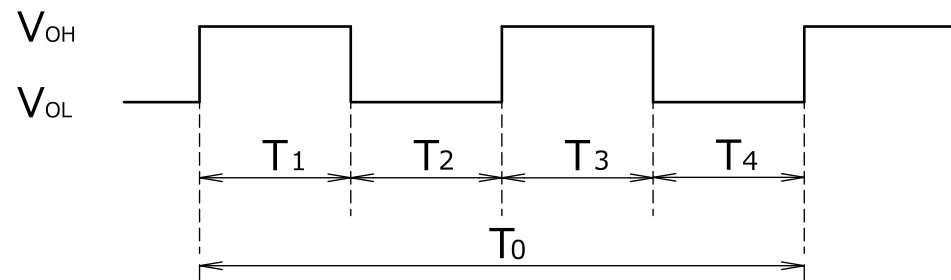
$I_C = 5 \text{ mA MAX. (} V_{CE} \text{ (SAT)} = 0.8 \text{ V MAX.)}$



<OUTPUT WAVEFORM>

(a) IN CASE OF STEADY RUNNING

ONE REVOLUTION



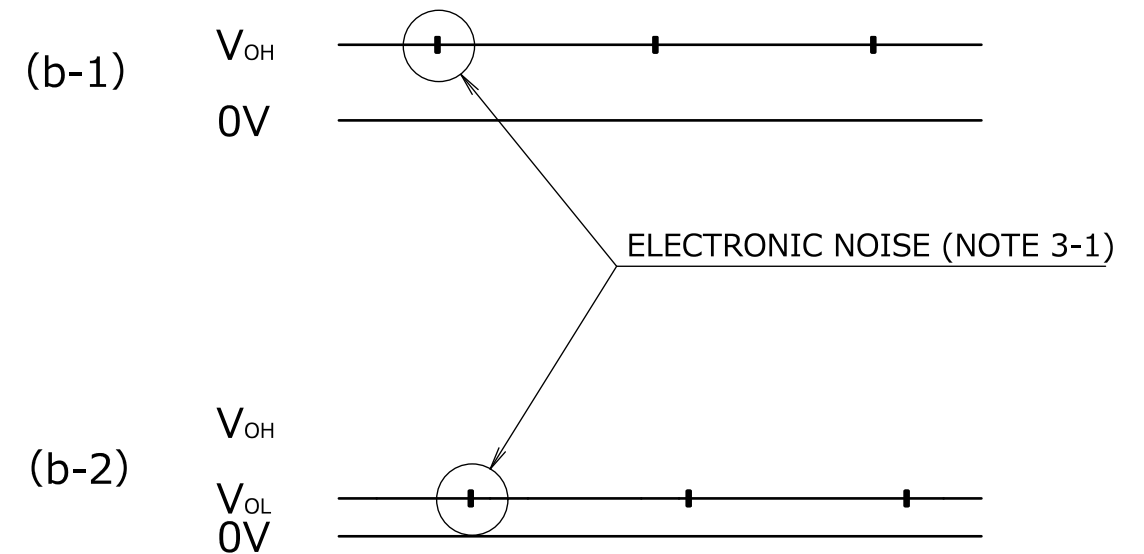
$$T_{1 \text{ to } 4} \cong (1/4) T_0$$

$$T_{1 \text{ to } 4} \cong (1/4) T_0 = 60/4 N \text{ (s)}$$

$$N = \text{FAN SPEED (min}^{-1}\text{)}$$

(b) IN CASE OF STEADY LOCKED ROTOR

SENSOR OUTPUT IS FIXED EITHER (b-1) OR (b-2).
センサー出力は(b-1)あるいは(b-2)のどちらかに固定される。

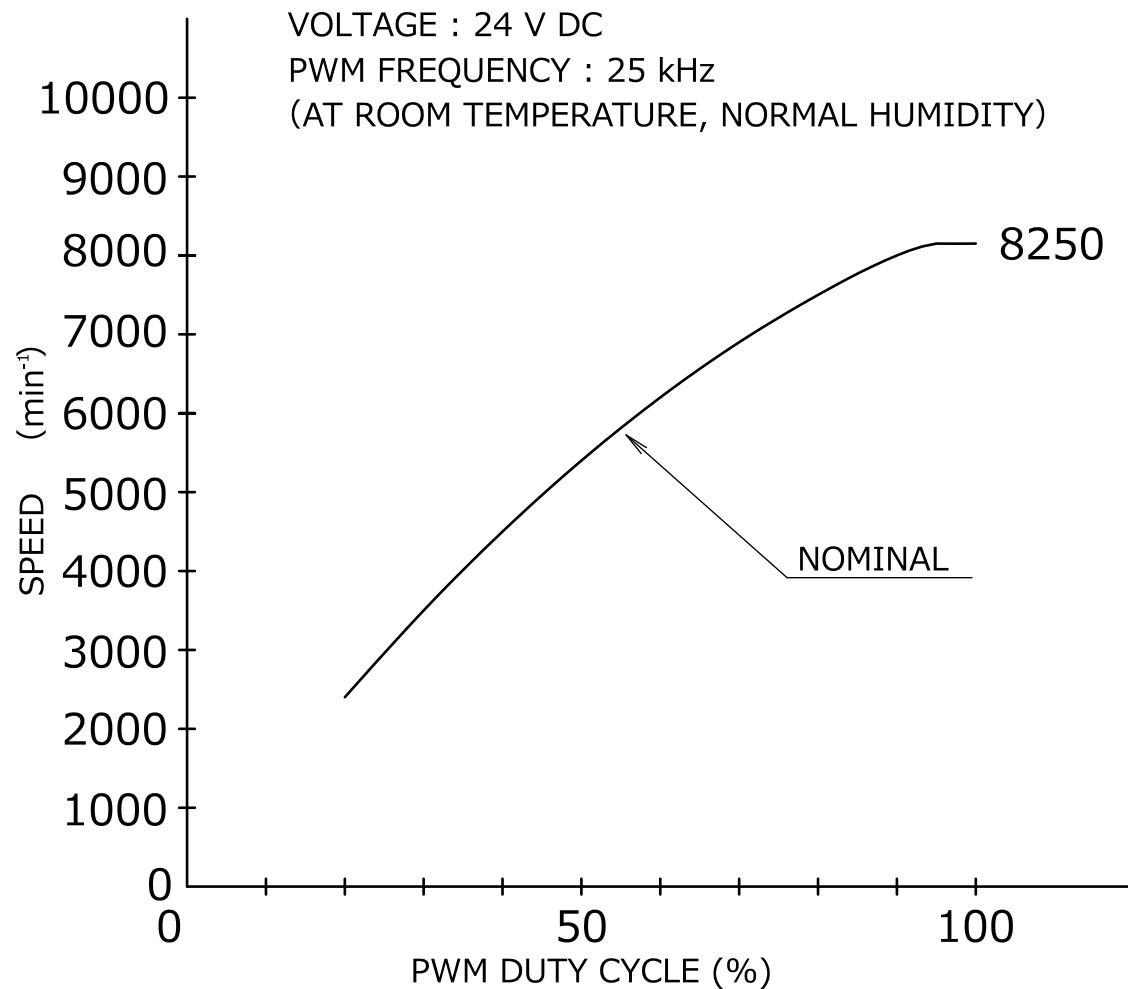


NOTE: 3-1. THE ELECTRONIC NOISE DUE TO AUTO-RESTART BEHAVIOR OF THE MOTOR MAY INFLUENCE V_{OH} OR V_{OL} .
モータの再起動動作にともない、 V_{OH} あるいは V_{OL} にノイズが載ることがある。

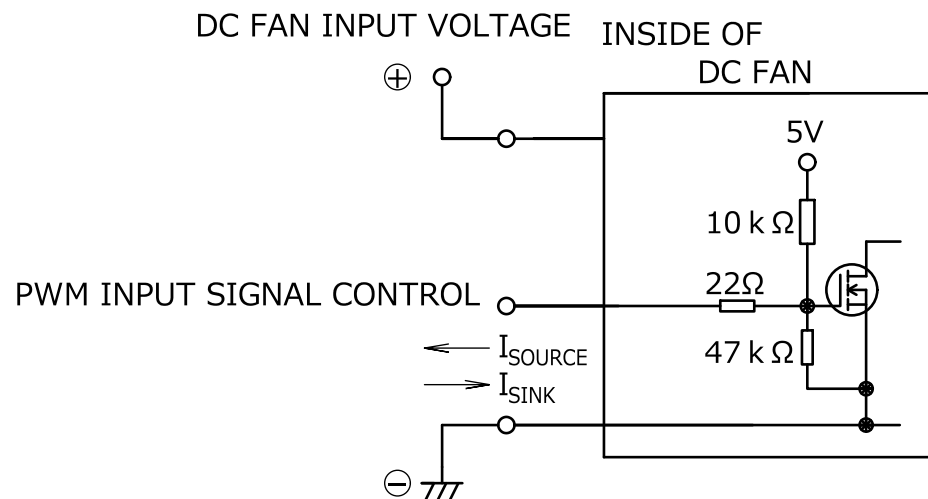
	ECN No.	E0204670	名称 Title	San Ace 80W (9WPA)	
	単位 Unit	新規 New Design	T.KAISE	RIBBED/PULSE_SENSOR/PWM_CONTROL	
mm	20-10-27				
尺度 Scale	図面番号 Dwg. No.	9WPA0824P4G201			Rev. B
-		SANYO DENKI			SANYO DENKI CO.,LTD. ISSUED
承認 Approved By	T.IKEDA	20-11-13	審査 Checked By	M.TAKAKUWA	20-11-12
設計 Designed By	T.KAISE	20-11-12	設計 Designed By	T.KAISE	20-11-12
Group	D12K	User	E0	Page	3/4

4. PWM DUTY-SPEED CHARACTERISTICS EXAMPLE

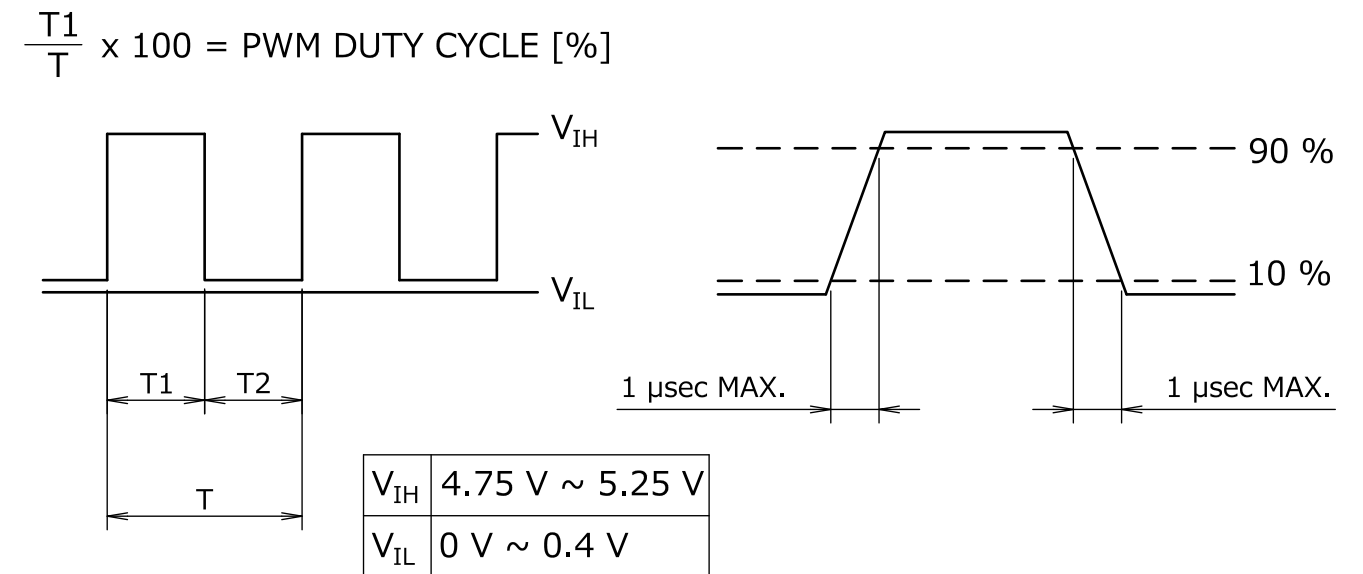
<PWM DUTY-SPEED CHARACTERISTICS EXAMPLE>



<EXAMPLE OF CONNECTION SCHEMATIC>



<PWM INPUT SIGNAL EXAMPLE>



- NOTE 4-1. PWM CONTROL SWITCHING MAY AFFECT THE SENSOR OUTPUT.
 PWM制御によるスイッチングがセンサ出力に影響する場合があります。
- 4-2. REFER TO PAGE 2 FOR THE SPEED WITH PWM DUTY CYCLE OF 0, 20, 100 %.
 PWMデューティサイクルが 0, 20, 100 % の時、回転速度は2頁を参照のこと。
- 4-3. WHEN THE CONTROL TERMINAL IS OPEN,
 FAN SPEED IS THE SAME AS WHEN PWM DUTY CYCLE IS 100 %.
 PWM入力端子がオープン状態の時、回転速度はPWMデューティサイクル100 %と同じであること。
- 4-4. EITHER TTL INPUT, OPEN COLLECTOR OR OPEN DRAIN CAN BE USED
 FOR PWM CONTROL INPUT SIGNAL.
 AND IN CASE OF OPEN COLLECTOR, DRAIN INPUT,
 THE PWM DUTY CYCLE SHOULD BE $(T-T2) \times 100 / T$.
 PWM入力信号はTTL入力又は、オープンコレクタ、ドレイン入力にて使用可能であること。
 但し、オープンコレクタ、ドレイン入力の場合、PWMデューティ = $(T-T2) \times 100 / T$ のこと。

	ECN No.	E0204670	名称 Title	San Ace 80W (9WPA)	
	単位 Unit	新規 New Design	設計者 Designer	RIBBED/PULSE_SENSOR/PWM_CONTROL	
mm		T.KAISE	承認 Approved By	審査 Checked By	設計 Designed By
		20-10-27	T.IKEDA	M.TAKAKUWA	T.KAISE
尺度 Scale	図面番号 Dwg. No.		承認日 Approved Date	審査日 Checked Date	設計日 Designed Date
-			20-11-13	20-11-12	20-11-12
			9WPA0824P4G201		Rev. B
SANYO DENKI			承認 Approved By	審査 Checked By	設計 Designed By
			T.IKEDA	M.TAKAKUWA	T.KAISE
			20-11-13	20-11-12	20-11-12
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