# **BRUSHLESS DC FANS**

## **■ FEATURES**

- FG signal type
- Low noise, 11 dB (A) type by the correct application of hydrodynamic design of impeller and frame
- Light weight (approx. 7 g)

# **■ STRUCTURE**

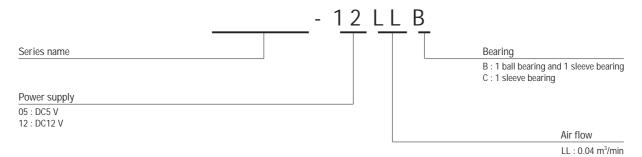
- Frame and impeller ABS/PBT alloy
- Bearing

B type: 1 ball bearing and 1 sleeve bearing

C type: 1 sleeve bearing

## **RoHS** compliant

#### **■ PART NUMBER DESIGNATION**



#### **■ LIST OF PART NUMBERS**

Power supply	Part number
DC5 V	-05LLB
DC12 V	-12LLB
	-12LLC

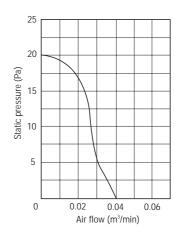
※ : Verify the above part numbers when placing orders.

#### STANDARD SPECIFICATIONS

Item	-05LLB -12LI	B -12LLC	
Rated voltage	DC5 V	DC12 V	DC12 V
Voltage range	4.2 ~ 5.7 V	10.2 ~	13.8 V
Rated current	0.05 A	0.03 A	
Rotating speed	6500 min <sup>-1</sup>		
Air flow	0.04 m³/min		
Static pressure	20 Pa		
Noise	11 dB (A)		
Net weight	Approx. 7 g		

\*: Figures in the table are typical values under rated operating condition.

#### ■ AIR FLOW PERFORMANCE CURVES

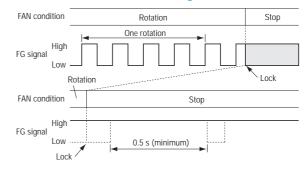


#### **■ FG SIGNAL CHARACTERISTICS**

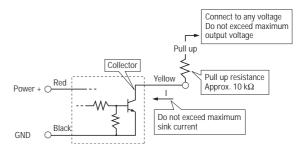
Item	Specification
Output circuit	Open collector
Maximum output voltage	15 V
Maximum sink current	5 mA
Output saturation voltage (at Low)	Vsat : Maximum 0.4 V
Output (rotate)	4 pulses / rotation
Output (lock)	High or High/Low intermittent motion 来
Time a High Signal (lock)	0.5 s minimum

- \*: 2 conditions are possible according to the stop position of the impeller.
- ① "High" (Fixed): Constantly "High"
  ② "High/Low" intermittent motion: "High" and "Low" switch at regular time intervals. It is guaranteed that "high" continues over 0.5 seconds.

# FAN condition and FG sighal

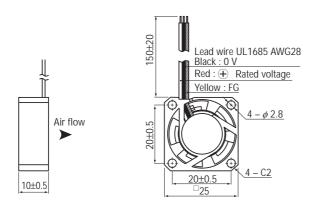


#### Output circuitry



(Unit: mm)

## **OUTLINE DIMENSIONS**



Dimension of mounting hole for recommendation

