MINI CROSS FLOW FANS (BLOWERS)

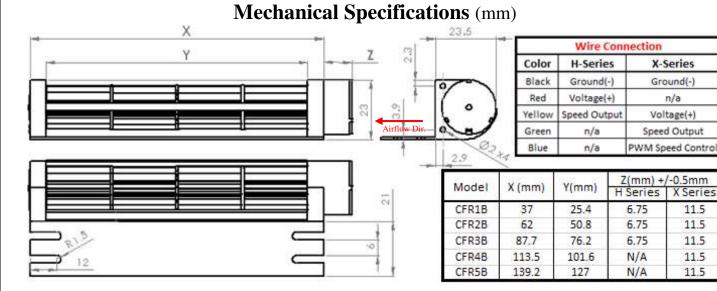


General Specifications:

Life Expectancy(L10) Brushless DC Motor Bearing System Operation Temperature Storage Temperature Material Lead Type Lead Length Weight RoHS/REACH >65,000hours@40°C CE/UL/CUL/TÜV Triple Ball Bearings -10°C ~ +70°C -20°C ~ +75°C UL94V-0/PBT GF Filled UL157/AWG#28 160mm+/-5 0.5 oz~1.3 oz. Yes

Model	Voltage (V)	Current (A)	Power (W)	Nominal Speed (RPM)	Air Flow (CFM)	Noise (dBA)	Pressure (inH ₂ O)	Ball Bearings	Weight (Grams)
CFR1B12X	12	0.1	1.2	11,500	6.8	36	0.23	Full	18
CFR2B12X	12	0.11	1.32	9,500	10.9	35	0.20	Full	24
CFR3B12X	12	0.12	1.44	8,500	13.9	34	0.17	Full	28
CFR4B12X	12	0.13	1.56	7,500	16.4	32	0.16	Full	32
CFR5B12X	12	0.14	1.68	6,500	23.2	30	0.14	Full	36
CFR1B12H	12	0.07	0.84	8,000	3.8	28	0.18	Full	14
CFR2B12H	12	0.08	0.96	7,000	5.5	25	0.14	Full	20
CFR3B12H	12	0.09	1.08	5,500	8.0	23	0.12	Full	26
CFR1B5X	5	0.22	1.1	11,500	6.8	36	0.23	Full	18
CFR2B5X	5	0.24	1.2	9,500	10.9	35	0.20	Full	24
CFR3B5X	5	0.26	1.3	8,500	13.9	34	0.17	Full	28
CFR4B5X	5	0.28	1.4	7,500	16.4	32	0.16	Full	32
CFR5B5X	5	0.29	1.45	6,500	23.2	30	0.14	Full	36
CFR1B5H	5	0.18	0.9	8,000	3.8	28	0.18	Full	14
CFR2B5H	5	0.19	0.95	7,000	5.5	25	0.14	Full	20
CFR3B5H	5	0.20	1.00	5,500	8.0	23	0.12	Full	26

Specifications subject to change without notice

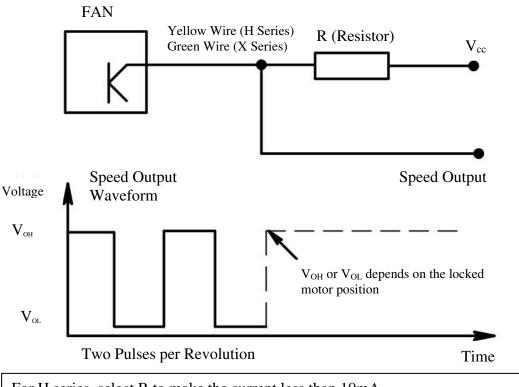


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Speed Sensor/ Tachometer Connection



For H series, select R to make the current less than 10mA. For example, when $V_{cc} = 5V$, R=500 Ohms, the current is 10mA. So, the final R should be great than 500 ohms, say 2K.

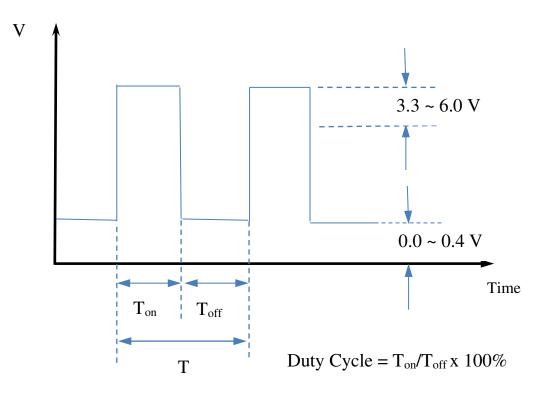
For X series, select R to make the current less than 5mA. For example, when $V_{cc} = 12V$, R=2400 Ohms, the current is 5mA. So, the final R should be great than 2.4K ohms, say 3K.

Absolute max. V_{cc} is 13.2V for 12V fans. Absolute max. V_{cc} is 5.5V for 5V fans.

PWM Speed Control Guide

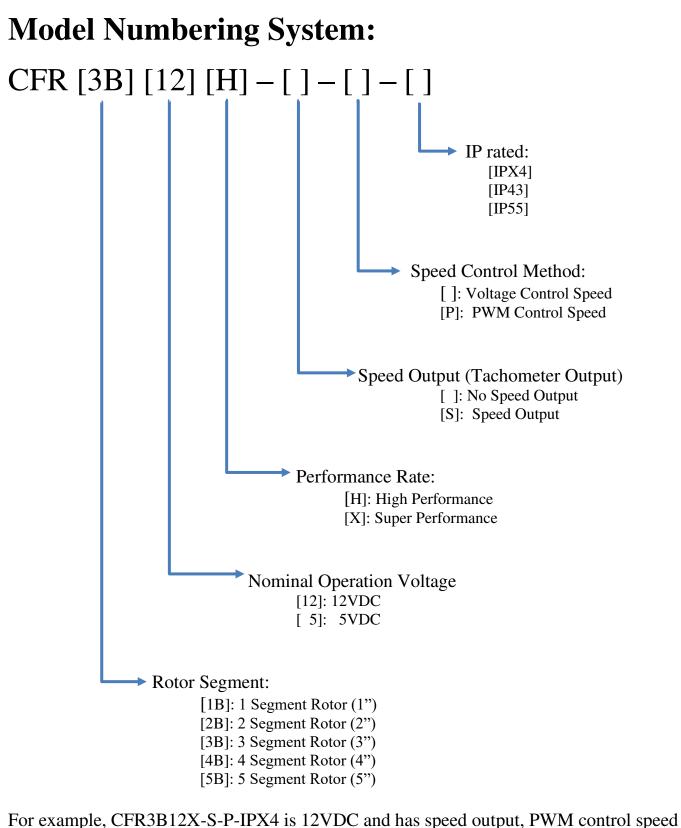
PWM frequency: 18~30KHz

Duty Cycle: 0~40% is not used. 40~100% controls speed linearly up to maximum speed.



Voltage Speed Control Guide

Speed of both X and H series also can be controlled by regulated voltage with speed signal feedback. For example, the speed of 12V and 5V fan can be controlled by an IC, such as MAX6650, or similar one.



For example, CFR3B12X-S-P-IPX4 is 12VDC and has speed output, PWM control speed and IPX4 rated.

For example, CFR5B5X-S-IP43 is 5VDC and has speed output, voltage control speed and IP43 rated.