

Fan 3rd Wire Signal

Fan with switching driving circuit designed for rpm measurement:

These fan motors have three lead wires:

+:Red,

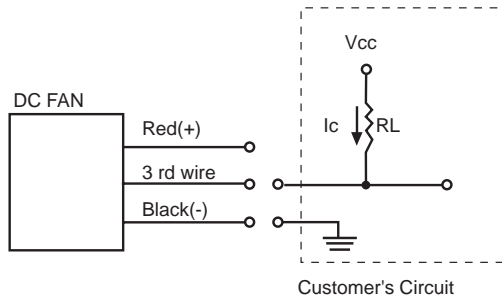
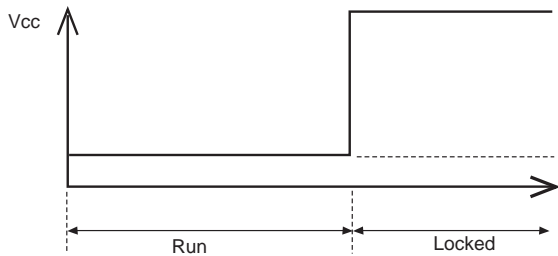
-:Black,

output signal for 3rd wire:

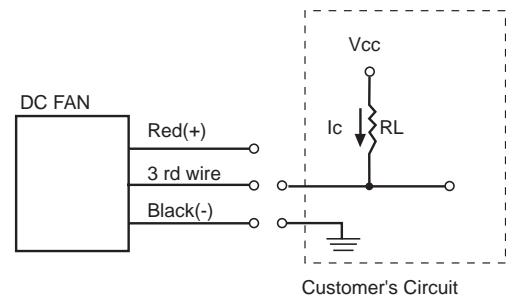
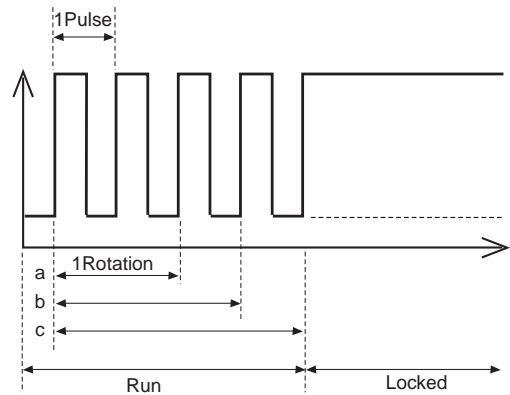
F Type : Yellow

R Type : White

● R Type (Rotation Detector)



● F Type (Frequency Generator)



The relationship between rotation & output pulses signal from 3rd wire are as follows:

- (a) 1 Rotation=2 Pulses(4 poles' motor)
- (b) 1 Rotation=3 Pulses(6 poles' motor)
- (c) 1 Rotation=4 Pulses(8 poles' motor)

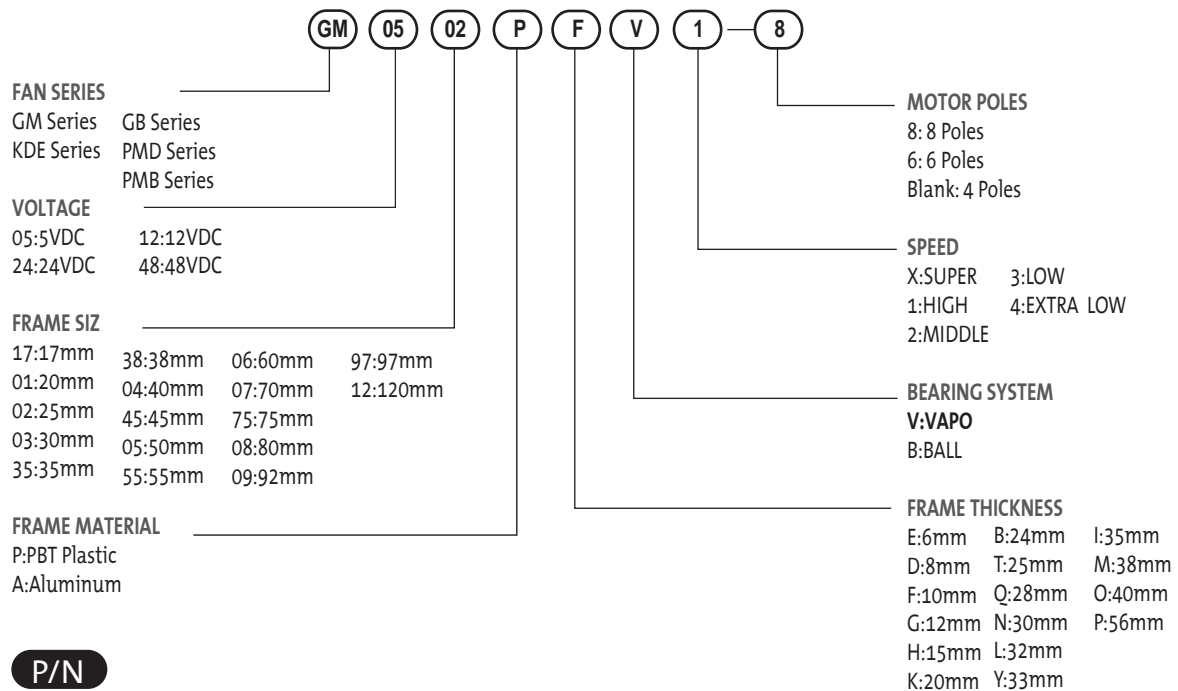
Notice:

For 8 poles' motor: normally, 1Rotation=4 pulses, if frequency divided circuit is implemented in this motor then 1Rotation=2 pulses.

Safety



DC Fan and Blower Model Numbering System



P/N

Example: KDE1208PTV1 P/N:13.MS.A.GN

- 11/13 Motor model
- MS MagLev Design
- (2) Two ball bearing
- G Big hub
- (9) 9 Blades
- N Smaller hub
- A Auto restart
- F 3rd wire with frequency generation waveform
- R 3rd wire with rotation detector waveform
- U Upgrade
- GN RoHS compliance

Sunon Connector recommendation

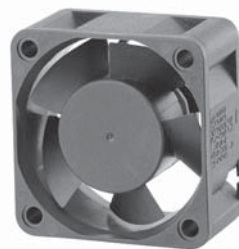
Connector pitch	Manufacturer	Housing	Terminal
1.25mm	HIROSE	DF13-2S-1.25C	DF13-2630SCF
	MOLEX	51021-0300	50058-8200
1.5mm	JST	ZHR-2	SZH-002T-P0.5 or SZH-003T-P0.5
2.0mm	JST	PHR-2	SPH-002T-P0.5S
2.54mm	ECI	2510-02	2511-P
	Molex	50-57-9405	16-02-0069(70058-0004) or 16-02-0082(70058-0006)
	Molex	2695-02RP	2759T(39-00-0372)
	Molex	2695-03RP	2759T(39-00-0372)
	Molex	6471-021	4809-C-P914
2.50mm	Molex	6471-031	4809-C-P914
	JAM	SC25-02HG	725462-2MA
	JST	SMR-02V-B	SYM-001T-P0.6
	JST	XHP-2	SXH-001T-0.6
	JST	EHR-2(H28J-2)	SEH-001T-P0.6
	JST	SMP-02V-BC	SHF-001T-0.8BS
	JWT	A2502H02-2P	A2502TOP-2
	JWT	A2502H02-3P	A2502TOP-2
2.50mm	Molex	5051-02	2759T(39-00-0372)
	Molex	5264-02	5263PBT(08-70-1039)

40X40X20 mm

SUNON

MagLev Motor Fan

6.3~10.8 CFM



Model	P/N	Bearing ● VAPO ⊙ 2BALL	Rating Voltage (VDC)	Power Current (AMP)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (Inch-H ₂ O)	Noise (dBA)	Weight (g)
KDE0504PKV1	MS.A.GN	●	5	0.19	1.0	7200	8.9	0.21	25.5	30
KDE0504PKV2	MS.A.GN	●	5	0.12	0.6	6200	7.7	0.16	21.0	30
KDE0504PKV3	MS.A.GN	●	5	0.08	0.4	5200	6.3	0.11	18.0	30
KDE1204PKVX	MS.A.GN	●	12	0.12	1.4	8200	10.8	0.27	27.5	31
KDE1204PKV1	MS.A.GN	●	12	0.07	0.8	7200	8.9	0.21	25.5	31
KDE1204PKV2	MS.A.GN	●	12	0.05	0.6	6200	7.7	0.16	21.0	31
KDE1204PKV3	MS.A.GN	●	12	0.03	0.4	5200	6.3	0.11	18.0	31
KDE2404PKVX	MS.A.GN	●	24	0.064	1.5	8200	10.8	0.27	27.5	31
KDE2404PKV1	MS.A.GN	●	24	0.05	1.2	7200	8.9	0.21	25.5	31
KDE2404PKV2	MS.A.GN	●	24	0.033	0.8	6200	7.7	0.16	21.0	31

