MODULAR TYPE Small Modular Model •For Compact and High Speed Motion : More Then 10000r/min. •Low Cost due to No Bearings. Model -050-0 LOW-0:With Boss Resolution Signal UVW Electric Angular 1 : Without 06:60° 12 :120°

Output Mode

Signals

5MD: Due to unavailable combination of specifications, Please make sure with sales Reps of the model name.

05

0512

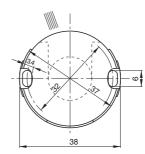
500 P/R

512 P/R

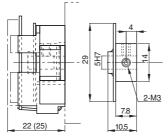
10 1000 P/R

5MD:5MD: Available Boss Only.

External Dimension



()...5MD MODEL



Standard Cable : 50cm

Boss Available

Signal UVW Number of Poles -

D : Line Driver Output

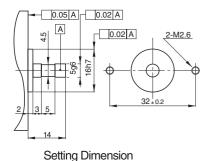
: AB90° Phase Difference

2M : AB90° Phase Difference + Zero Signal

5M : AB90° Phase Difference + Zero Signal

+ UVW120° (60°) Phase Difference

2

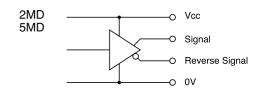


4:4Poles

6:6Poles

8:8Poles

Circuit of Output Signal

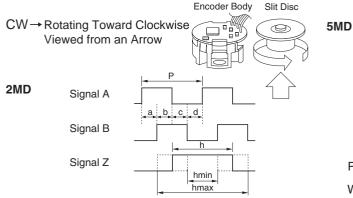


Electrical Spec.

ТҮРЕ		2MD	5MD
Supply Voltage		DC4.75 ~ 5.25V	
Requirement		150 mA Max	250 mA Max
Output Voltage	"H"	2.5 V or More	
	"L"	0.5 V Max	
Maximum Output Current		20 mA MAX	
Rise & Fall Time		200 ns Max	
Maximum Frequency Response		200 kHz	
Withstanding Voltage of Output Tr.			

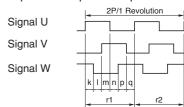
*1) at Maximum Output Current

Wave Form.



Rising point of A-signal is always at one point while Z-signal is at H-level.

When UVW phases output are 4 poles at 120°.



Mechanical Augular	k∼q 30°±3° r1, r2 180°±1°
Position Relation bet Mechanical Augular	ween U and Z phases $0^{\circ} \pm 2^{\circ}$

 $\overline{A} \ \overline{B} \ \overline{Z} \ \overline{U} \ \overline{V} \ \overline{W}$ signal are reverse signal of ABZUVW.

Mechanical Spec.

Moment of Inertia	5×10⁻²kg • m	
Angular Acceleration	1×10^4 rad / s ²	
Maximum RPM	10000 r/min	
Net Weight	150 g Max	

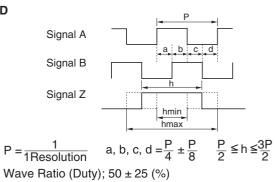
Environmental Spec.

Operating Temperature	−10°C ~ +85°C	
Storage Temperature	− 20°C ~ +85°C	
Humidity	RH 85% Max No Condensation	
Vibration	10~55 Hz / 1.5mm 2 h	
Shock	490m/s ² ,11ms X, Y, Z Each 3 times	

Electrical Connections

Color of Lead Wire Description Color of Lead Wire Description Red Power Source White Signal B Signal B Black 0V Common Gray Signal B	
Black 0V Common Gray Signal B	on
Green Signal A Yellow Signal Z Blue Signal Ā Orange Signal Z Shielding Braid F, G Signal Z Signal Z	

5MD			
Color of Lead Wire	Description	Color of Lead Wire	Description
Red Red – White Black Black – White Green Green – White Gray Gray – White	Power Source Power Source 0V Common OV Common Signal A Signal B Signal B	Yellow Yellow – White Brown – White Blue Blue – White Orange Orange – White	Signal U
Shielding Braid		Urange - Wille	Signal W



Rising point of B-signal is always at one point while Z-signal is at H-level.

71