

SHAFT TYPE

NE Model



Super Heavy Duty Model

- Durable for Heavy Shaft Loading.
- Up to 5000 P/R.



Model

NE-

Resolution

-2MD-

Complying with RoHS

-

00 : 5000min⁻¹Spec,IP54,Without additional Connector

01 : 5000min⁻¹Spec,IP54,With additional Connector*

04 : 9000min⁻¹Spec,IP54,With additional Connector*

05 : 9000min⁻¹Spec,IP54,Without additional Connector

08 : 10000min⁻¹Spec,IP66,Without additional Connector

09 : 10000min⁻¹Spec,IP66,With additional Connector*

000 : No Flange

068 : With 68mm SQ Flange

Flange Style

0 : No Flange

F : With Flange

Output Mode

D : Line Driver Output

Signals

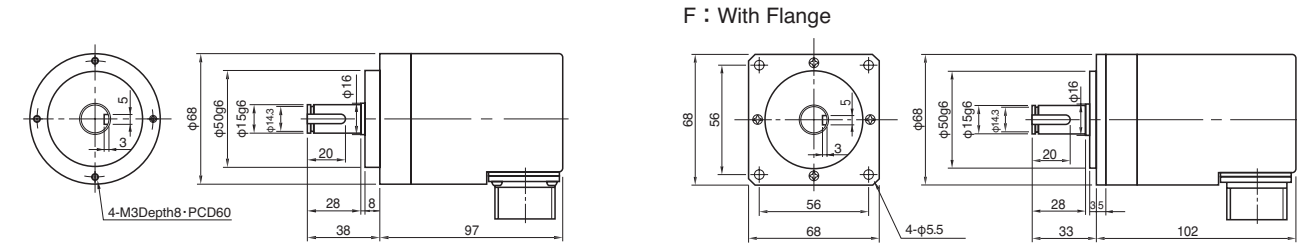
2M : AB90° Phase Difference + Index Signal

E

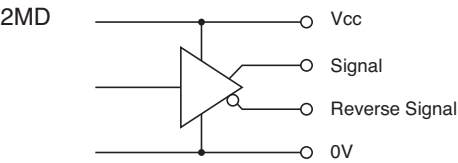
002	20P/R	1024	1024P/R
005	50P/R	1250	1250P/R
006	60P/R	18	1800P/R
01	100P/R	20	2000P/R
02	200P/R	2048	2048P/R
03	300P/R	25	2500P/R
036	360P/R	36	3600P/R
05	500P/R	4096	4096P/R
06	600P/R	50	5000P/R
10	1000P/R		

*with Connector
Plug :D/M3106B20-29S(DDK or its equivalent)1piece
Cable Clamp:D/M3057-12A (DDK or its equivalent)1piece

External Dimension



Output Circuit

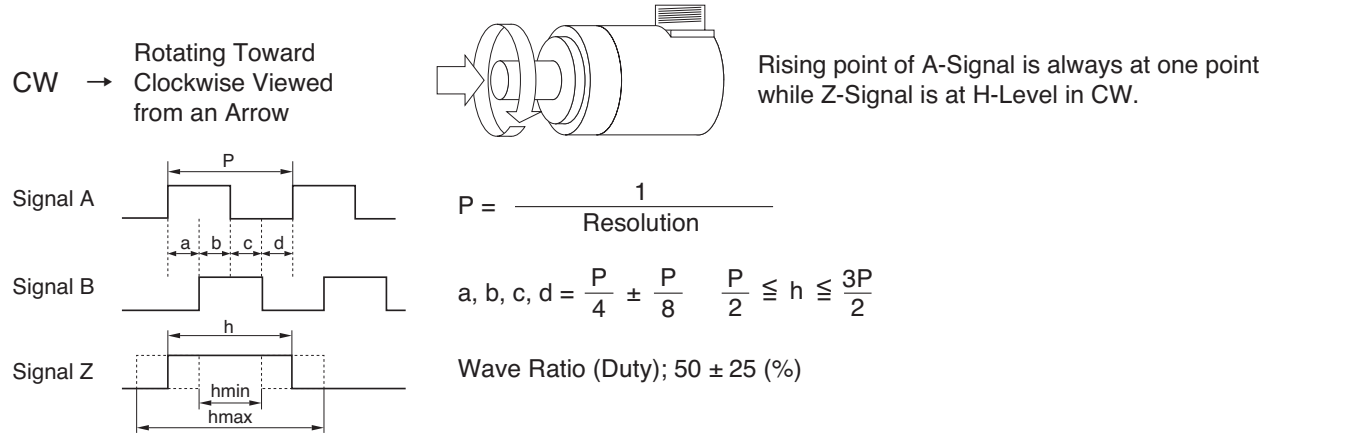


Electrical Spec

TYPE		2MD
Power Supply(Vcc)		DC4.75~5.25V
Current Consumption		150 mA Max
Output Voltage	“H”	2.4 V Min
	“L” *1	0.5 V Max
Maximum Sink Current		40 mA
Rise & Fall Time		200 ns Max
Maximum Frequency Response		200 kHz

*1) at Maximum Sink Current

Wave Form



*2MD has reverse signal of Signal A,B,Z.

Electrical Connections

Receptacle DDK MS3102A20-29P(or its equivalent)

Pin#	Signal	Pin#	Signal
A	Signal A	K	0V
B	Signal Z	N	Signal $\bar{A}$
C	Signal B	P	Signal $\bar{Z}$
E	F.G	R	Signal $\bar{B}$
H	Power Supply(Vcc)		

Mechanical Spec

Starting Torque		9.8×10 ⁻² N · m Max
Angular Acceleration		2×10 ⁵ rad/s ²
Shaft Loading	Thrust	49N
	Radial	98N
Moment of Inertia		1.7×10 ⁻⁵ kg · m ²
Maximum Permissible Speed		5000min ⁻¹ (9000min ⁻¹ , 10000min ⁻¹)
Net Weight		1kg Max(Without Flange)

Environmental Spec

Operating Temperature	−5°C~+60°C
Storage Temperature	−30°C~+80°C
Humidity	RH 85% Max No Condensation
Vibration	10~55 Hz / 1.5mm X, Y, Z Each 2h
Shock	490m/s ² ,11ms X, Y, Z Each 3 times
Ingress Protection	IP54(IP66) Plug In