

SHAFT TYPE

NOM_{Model}



Small diameter with high function

- High resolution up to 600P/R and up to 70°C Temperature with smaller diameter at 24

Model

NOM-S - **2M** - - **00**

Resolution

100	• 100P/R
200	• 200P/R
300	300P/R
360	• 360P/R
400	400P/R
500	500P/R
512	• 512P/R
600	600P/R

Signals

Output Mode

Cable Length

- 050 : 500mm(Standard)
- 100 : 1000mm
- 300 : 3000mm

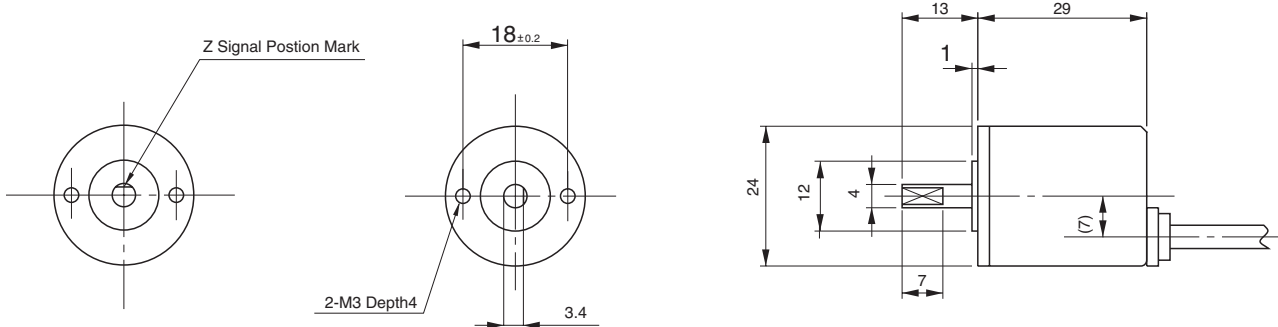
No Indication : Voltage Output

C : Open Collector Output

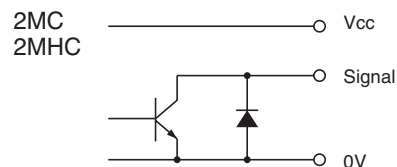
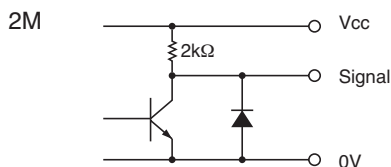
HC : Open Collector Output / High Voltage

AB90° Phase Difference + Zero Signal

External Dimension



Circuit of Output Signal

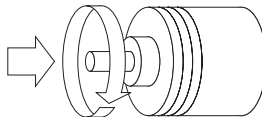


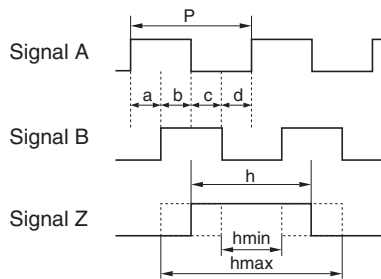
Electrical Spec.

TYPE		2M	2MC	2MHC
Supply Voltage		DC 4.5 ~ 13.2 V		DC 10.8 ~ 26.4 V
Requirement		50 mA Max	30 mA Max	
Output Voltage	“H”	Within -1 Power Volt		
	“L” ※1	0.4 V Max		
Maximum Output Current		20 mA MAX	30 mA MAX	
Rise & Fall Time		1 μs Max		
Maximum Frequency Response		60 kHz		
Withstanding Voltage of Output Tr.		—	50 V MAX.	

※1) at Maximum Output Current

Wave Form.

CW → Rotating Toward Clockwise Viewed from an Arrow  Rising point of A-Signal is always at one point while Z-Signal is at H-Level in CW.



$$P = \frac{1}{1\text{Resolution}}$$

$$a, b, c, d = \frac{P}{4} \pm \frac{P}{8} \quad \frac{P}{2} \leq h \leq \frac{3P}{2}$$

Wave Ratio (Duty); 50 ± 25 (%)

Electrical Connections

2M 2MC 2MHC	Color of Lead Wire	Description
	Red	Power Source
	Black	0V Common
	Green or Blue	Signal A
	White	Signal B
	Yellow	Signal Z
	Shielding Braid	NC

Mechanical Spec.

Starting Torque		9.8×10 ⁻⁴ N · m Max
Angular Acceleration		1×10 ⁵ rad/s ²
Shaft Loading	Thrust axial	4.9N
	Radial	9.8N
Moment of Inertia		2×10 ⁻⁷ kg · m ²
Maximum RPM		6000r/min
Net Weight		35g Max

Environmental Spec.

Operating Temperature	-10°C ~ +70°C
Storage Temperature	-30°C ~ +80°C
Humidity	RH 85% Max No Condensation
Vibration	10~50 Hz / 1.5mm 2 h
Shock	490m/s ² , 11ms X, Y, Z Each 3 times
Degree of Protection	IP50