

SHAFT TYPE

OPN Model



Heavy Duty Model

- Heavy-Duty Type.
- Easy Mounting (with Flange Type).



Model

OPN - [] - 2M [] - [] -000-00E

Resolution

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		

Output Mode

- No Indication: Voltage Output
- C : Open Collector Output
- HC : Open Collector Output / High Voltage

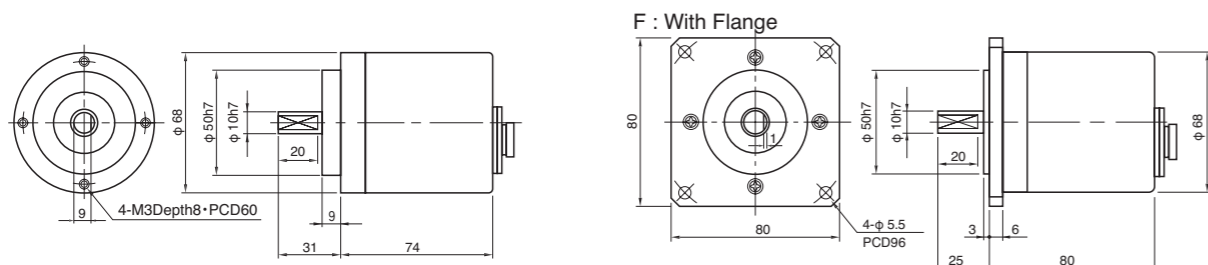
Flange Style

- 0 : No Flange
- F : With Flange

Signals — 2M : AB90° Phase Difference + Index Signal

Complying with RoHS

External Dimension



Output Circuit

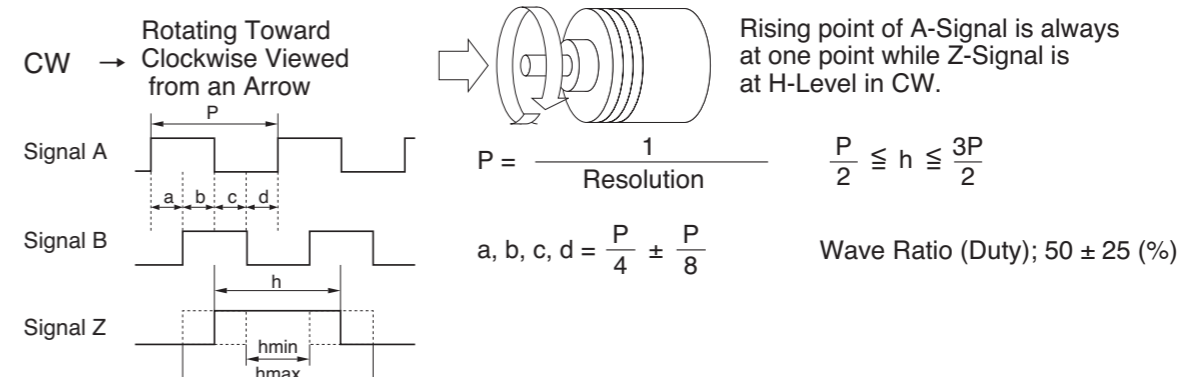


Electrical Spec

TYPE		2M	2MC	2MHC
Power Supply(Vcc)		DC4.5 ~ 13.2V		DC 10.8 ~ 26.4V
Current Consumption		90 mA Max	70 mA Max	
Output Voltage	"H"	Vcc-1V Min	—	
	"L" *1	0.5 V Max		
Maximum Sink Current		30 mA		
Rise & Fall Time		1 μs Max		
Maximum Frequency Response		200 kHz		
Withstanding Voltage of Output Tr.		50 V Max		

*1) at Maximum Sink Current

Wave Form



Electrical Connections

Receptacle Sanwa Connector Ltd. SCK-2007

Pin#	Signal	Pin#	Signal
1	Power Supply(Vcc)	6	0V
2	F, G	7	0V
3	Signal Z		
4	Signal B		
5	Signal A		

Mechanical Spec

Starting Torque	19.6x10 ⁻³ N · m Max
Angular Acceleration	1x10 ⁵ rad/s ²
Shaft Loading	Thrust 39.2N
	Radial 78.4N
Moment of Inertia	6x10 ⁻⁶ kg · m ²
Maximum Permissible Speed	5000min ⁻¹
Net Weight	700g Max

Environmental Spec

Operating Temperature	- 10°C ~ + 70°C
Storage Temperature	- 30°C ~ + 80°C
Humidity	RH 85% Max No Condensation
Vibration	10~55Hz / 1.5mm X, Y, Z Each 2h
Shock	490m/s ² , 11ms X, Y, Z Each 3 times
Ingress Protection	IP54