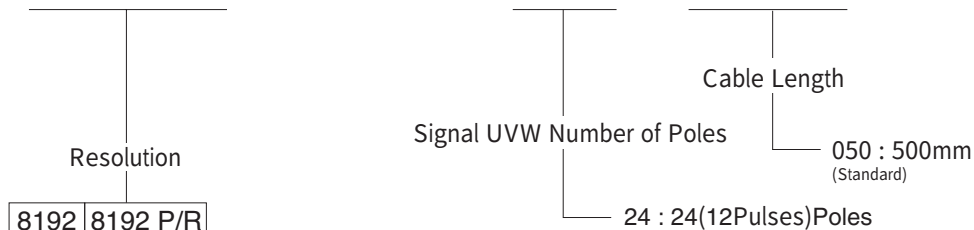
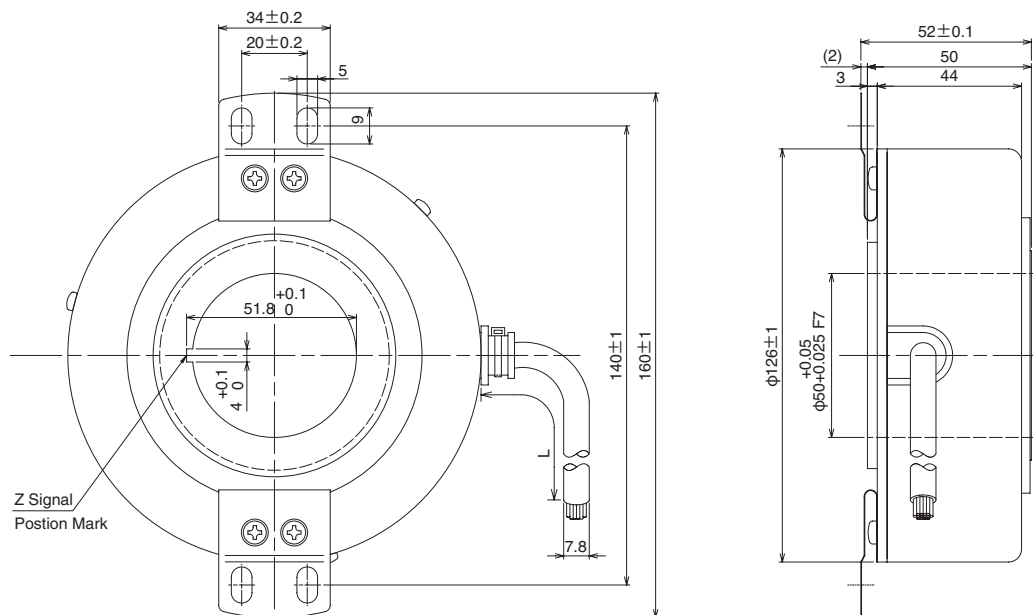
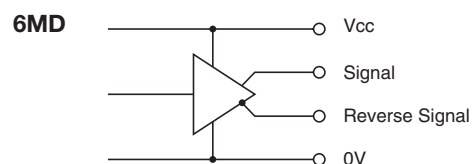


BUILT-IN TYPE**SBU** Model**Large Size Model**

- Low Profile Hollow Through Shaft With Max. Caliber $\phi 50\text{mm}$.

Model**SBU – 8192 – 6MD 24 – 500 – 00****External Dimension****Circuit of Output Signal**

Electrical Spec.

TYPE		6MD
Supply Voltage		DC 11.4 ~ 12.6V
Requirement		210 mA Max
Output Voltage	"H"	2.5 V or More
	"L" ※1	0.5 V Max
Maximum Output Current		20 mA MAX
Rise & Fall Time		200 ns Max
Maximum Frequency Response		68.3 kHz

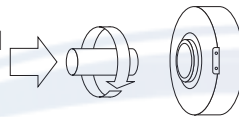
※1)
at Maximum Output Current

Electrical Connections

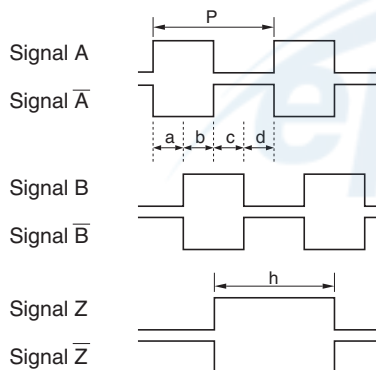
Pin #	A	B
1	—	—
2	0V Common	+12V
3	—	—
4	F $\bar{0}$	F0
5	F $\bar{2}$	F2
6	F $\bar{3}$	F3
7	F $\bar{1}$	F1
8	Signal Z	Signal Z
9	Signal B	Signal B
10	Signal A	Signal A

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.

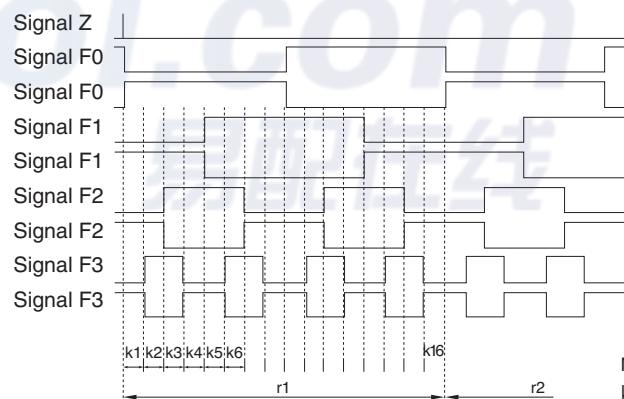


$$P = \frac{1}{1\text{Resolution}}$$

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

Wave Ratio (Duty); 50 ± 25 (%)

● When UVW phases output are 4 poles at 120° .



Mechanical Angular
k1 ~ k16 $1.875^\circ \pm 0.5^\circ$
r1, r12 $30 \pm 2^\circ$

Position Relation between F0 and Z phases
Mechanical Angular $0^\circ \pm 0.9^\circ$

Mechanical Spec.

Starting Torque		$49 \times 10^{-2} \text{ N} \cdot \text{m}$ Max
Shaft Loading	Thrust axial	29.4N
	Radial	49N
Moment of Inertia		$1.5 \times 10^{-3} \text{ kg} \cdot \text{m}^2$
Maximum RPM		500r/min
Net Weight (W/O Cable)		2kg Max

Environmental Spec.

Operating Temperature	$-10^\circ \text{C} \sim +70^\circ \text{C}$
Storage Temperature	$-20^\circ \text{C} \sim +85^\circ \text{C}$
Humidity	RH 85% Max No Condensation
Vibration	50 Hz / 1.5mm 2 h
Shock	$196 \text{ m/s}^2, 15 \text{ ms}$ X, Y, Z Each 3 times
Degree of Protection	IP50