

28S model



Small model

- ◇ Up to 12800P/R
- ◇ Compatible with OEZ series

Model

28S - □□□□ - 2M□ - □ - 050 - 00E

Resolution

Output Mode

Shaft Diameter

Cable Length

Complying with RoHS

050: L = 500mm

5: φ5mm (standard)

4: φ4mm

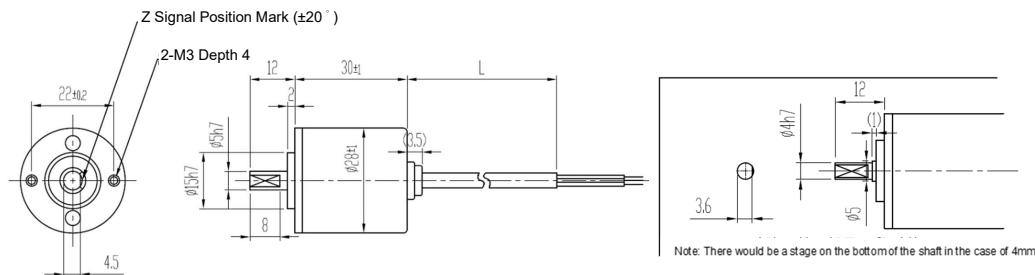
C: Open Collector Output

No Indication: Voltage Output

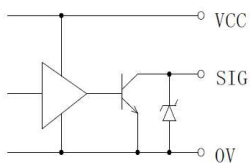
D: Line Driver Output

512	512 P/R	800	800 P/R	1024	1024 P/R	1600	1600 P/R	2048	2048 P/R
3200	3200 P/R	4096	4096 P/R	6400	6400 P/R	8192	8192 P/R	12800	12800 P/R

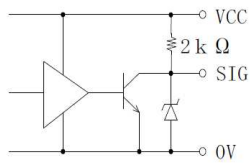
External Dimension



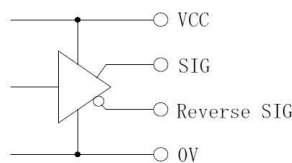
Output Circuit



Open Collector



Voltage Output

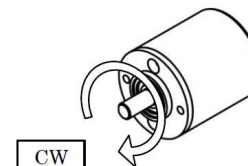
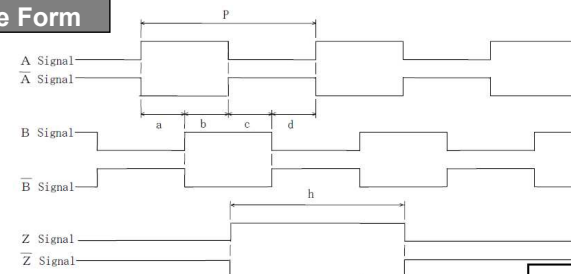


Linedriver

Erectrical Spec

TYPE	2MC	2M	2MD
Supply Voltage	DC 4.5 to 26.4V	DC 4.5 to 13.2V	DC 4.5 to 5.5V
Current Consumption	<50mA (Typ.) 90mA(Max)	<70mA (Typ.) 110mA(Max)	<40mA (Typ.) 80mA(Max)
Output Voltage	[H]: - [L]: <0.5V	[H]: >Vcc -1V (No load) [L]: <0.5V	[H]: >2.4V (I _{OH} =20mA) [L]: <0.5V (I _{OL} =20mA)
Output Current	40mA MAX	40mA MAX	20mA MAX
Withstanding Voltage of Output Tr.	50V	50V	-
Maximum Frequency Response	<1.28MHz		
Rise / Fall Time	1μs MAX	1μs MAX (Rise: 2kΩ / Fall: all Load)	100ns MAX
Insulation resistance	50MΩ or more DC 500V (0V⇔CASE)		
Dielectric resistance	AC500V 1minute		

Wave Form



$$P = 1 / (\text{Pulse/Rev})$$

Accuracy Wave Form

- a) Signal A, B a, b, c, d = (P/4) ± (P/8)
Duty = (P/2) ± (P/4)
b) Signal Z (P/2) ≤ h ≤ (3P/2)

Ā, B̄, Z̄信号はラインドライバ出力のみ
(Signal Ā, B̄, Z̄ are Linedriver only.)

*Note: Rising of A signal is one point when Z signal is high..(CW)
Rising of A signal is one point when Z signal is high. (CCW)

Electrical Connections

Open collector / Voltage	
Color	Signal
Red	VCC
Black	0V
Blue	Sig. A
White	Sig. B
Yellow	Sig. Z
Shield	N.C

Line driver			
Color	Signal	Color	Signal
Red	VCC	Yellow	Sig. Z
Black	0V	Orange	Sig. Z̄
Green	Sig. A	Shield	N.C
Blue	Sig. Ā		
White	Sig. B		
Gray	Sig. B̄		

Mechanical Spec

Starting Torque	9.8×10 ⁻⁴ N·m max (at +25℃)
Moment of Inertia	2×10 ⁻⁷ kg·m ² max
Shaft	Thrust 4.9N
Loading	Radial 9.8N
Mechanical Speed	6000 r/min ⁻¹ max
Angular Acceleration	1×10 ⁶ rad/s ² max
Net Weight	20g max

Environmental Spec

Operating Temperature	-10 ~ 85 °C
Storage Temperature	-30 ~ 85 °C
Humidity (No Condensation)	RH 85% or less
Vibration	10 ~ 55Hz/1.5mm
Shock	490m/s ² , 11ms
Ingress Protection	IP50

[Note] Please contact our sales for inquiries about the product of details.