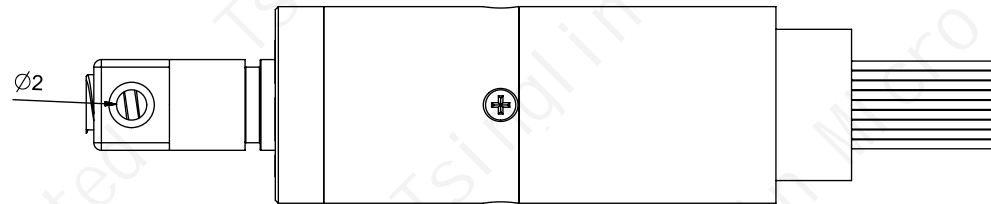


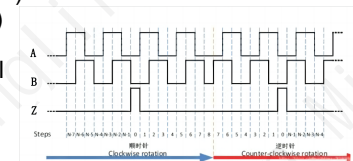
Lower lead screw nut, lead 2, diameter 4mm



Encoder Wiring Sequence: PIN1-5

- pin1 - GND (Black)
- pin2 - VCC (Red)
- pin3 - A+ (Single-ended) (Yellow)
- pin4 - B+ (Single-ended) (Green)
- pin5 - Z+ (Single-ended) (Blue)

Note: Magnetic encoder, digital output, 3 channels, 1024 PPR



Coreless Brushless Motor

Wiring Sequence: PIN1-3

- pin1 - U (White)
- pin2 - V (Yellow)
- pin3 - W (Blue)

Motor Performance Parameters:

- 1.Motor Type:Coreless Brushless Motor
- 2.Operating Voltage:12V
- 3.No-load Speed:25000±10%RPM
- 4.No-load Current:≤0.2A
- 5.Load Speed:18000±10%RPM
- 6.Load Torque:≥15g.cm
- 7.Load Current:≤0.8A
- 8.Stall Torque:≥100g.cm
- 9.Pole Pairs:2 Pole Pairs
- 10.Operating Temperature:-40-85°C
- 11.Noise:≤45DB
- 12.Motor Maximum Efficiency:75%

Gearmotor Performance Parameters:

- 1.Operating Voltage:12V
- 2.No-load Speed:1000±10%RPM
- 3.No-load Current:≤0.3A
- 4.Load Speed:720±10%RPM
- 5.Load Torque:≥220g.cm
- 6.Load Current:≤1A
- 7.Operating Temperature:-40-85°C
- 8.Reduction Ratio:1:25
- 9.Noise:≤55DB
- 10.Gearbox Material:Pure Steel (Machined)
- 11.Geared motors should not be subjected to frequent impacts or stalling during operation.

设计		第一视觉画法 	13mm Planetary Gearbox + 13mm Coreless Brushless Motor+T-type lead screw + Encoder (Product Type)
审核			TSL-PG13K25-KW1317-SG04+MA1024 (Product Model)
批准		未注线性与角度尺寸公差： GB\T1804-m eqv ISO 2768-1:m	Tsinglin Micro Motors Limited
日期	2025.11.05		