



Connector Model: KW30-10P-1C (800)

Wire Sequence (Pins 1-9):
Pin Number Definition

- pin1 HALLA
- pin2 HALLB
- pin3 HALLZ
- pin4 3.3V
- pin5 GND
- pin6 Motor U
- pin7 Motor V
- pin8 Motor W
- pin9 Motor Thermistor



Motor Performance Parameters

- 1.Motor Type: Coreless brushless motor
- 2.Operating Voltage: 12 V
- 3.No-load Speed: 20000 ± 10% RPM
- 4.No-load Current: ≤ 0.15 A
- 5.Rated Speed: 18000 ± 10% RPM
- 6.Rated Torque: ≥ 25 g·cm
- 7.Rated Current: ≤ 0.5 A
- 8.Stall Torque: ≥ 260 g·cm
- 9.Stall Current: ≤ 3 A
- 10.Pole Pairs: 1 pair
- 11.Operating Temperature: -40 - 80 °C
- 12.Weight: ≤ 50 g
- 13.Noise: ≤ 45 dB
- 14.Maximum Motor Efficiency: 75%a

Gear Motor Performance Parameters

- 1.Operating Voltage: 12 V
- 2.No-load Speed: 50 ± 10% RPM
- 3.No-load Current: ≤ 0.2 A
- 4.Rated Speed: 45 ± 10% RPM
- 5.Rated Torque: ≥ 0.6 N·m
- 6.Rated Current: ≤ 0.6 A
- 7.Stall Torque: ≥ 5 N·m
- 8.Operating Temperature: -40 - 80 °C
- 9.Reduction Ratio: 1:388
- 10.Noise: ≤ 55 dB
- 11.Gearbox Backlash: ≤ 1.5°
- 12.Gearbox Material: Pure copper (machined)

版本	变更日期	变更内容
A 1	2025.03.22	Modified upper and lower brackets to enhance rigidity
设计		第一视觉画法
审核		
批准		未注线性与角度尺寸公差： GB\T1804-m eqv ISO 2768-1:m
日期	2025.04.30	

16mm Planetary Gearbox + 16mm Coreless Brushless Motor + 0.8 Modulus Bevel Gear
Direction Change Output (Product Type)

PG16K388R-KW1622

+SC08M12Z (Right-hand Wrist Motor Module) (Product Model)

Tsinglin Micro Motors Limited