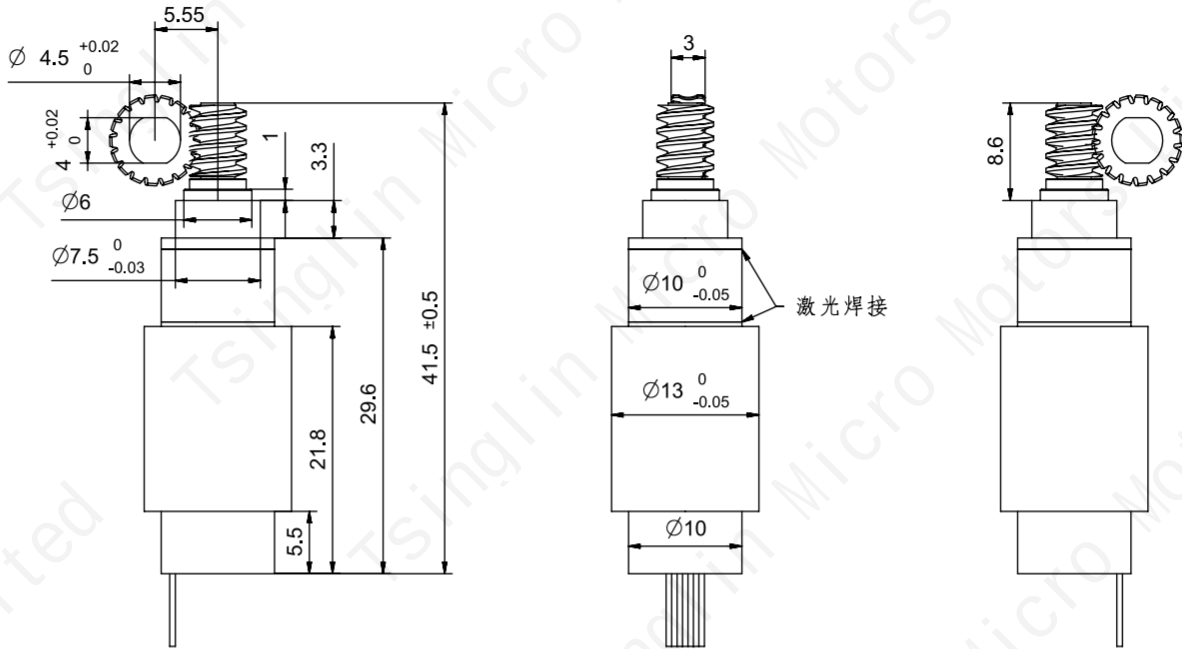


Worm and Worm Wheel Parameters		
Parameter	Worm	Worm Wheel
Module	0.4	
Starts / Teeth	1	17
Pressure Angle	20°	20°
Tip Diameter	5.0	7.6
Pitch Diameter	4.2	6.8
Lead Angle	Right-Hand 5.44°	
Worm Lead	1.257	—
Worm Pitch	1.257	—
Addendum Coefficient	1	1
Clearance Coefficient	0.25	0.25
Profile Shift Coefficient	—	—
Center Distance	5.55	
Material	20CrMnTi	
Accuracy Grade	GB/T 10095-2001 Grade 8	



Motor Performance Parameters
1. Motor Type: Coreless Brushless Motor
2. Operating Voltage: 12V
3. No load Speed: 25000±10%RPM
4. No load Current: ≤0.4A
5. Load Speed: 18000±10%RPM
6. Load Torque: ≥15g·cm
7. Load Current: ≤1A
8. Stall Torque: ≥100g·cm
9. Number of Pole Pairs: 2 Pole pairs
10. Operating Temperature: -40 ~ 85°C
11. Weight: ≤30g
12. Noise: ≤45dB
13. Maximum Motor Efficiency: 75%

Geared Motor Parameters
1. Operating Voltage: 12V
2. No load Speed: 50±10%RPM
3. No load Current: ≤0.5A
4. Rated Speed: 35±10%RPM
5. Rated Torque: ≥3000g·cm
6. Rated Current: ≤1.2A
7. Operating Temperature: -40 ~ 80°C
8. Gear Ratio: 1:476
(Planetary 1:28, Worm gear 1:17)
9. Noise: ≤55dB
10. Gearbox Material: Solid Steel
(Machined)

Built in Driver: 4 wire (Pin 1-4) Pin 1: GND-Black Pin 2: VDD-Red Pin 3: RXD-Yellow Pin 4: TXD-Blue			
设计		第一视觉画法 	10mm Planetary Gearbox + 13mm Coreless Brushless Motor + Worm gear Gearbox + Built in Driver (Motor Type)
审核			
批准		未注线性与角度尺寸公差: GB\T1804-m eq v ISO 2768-1:m	PG10K28-KW1317+LG04M17Z+TTL (Motor Model)
日期	2026.08.18		Tsinglin Micro Motors Limited