

Conductive Plastic (Screen Element) Angle Sensor

CP-2FL Series



- Conductive Plastic Angle Sensor : **Screen Element**
- Mass Production Design of CP-2FJ series
- Effective Electrical Travel : 340°
- Independent Linearity : ±2%
- Bushing Mount
- Metal Sleeve Bearing

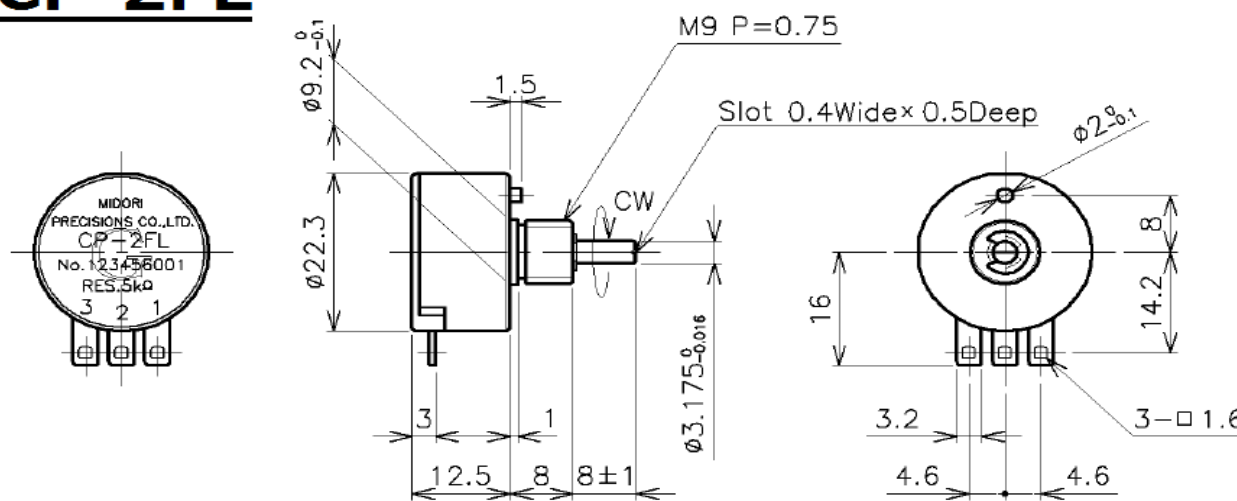
- CP-2FL : $\phi 3.175$ mm Shaft, Metal Sleeve Bearing
- CP-2FL-6 : $\phi 6$ mm Shaft, Metal Sleeve Bearing

[Material]

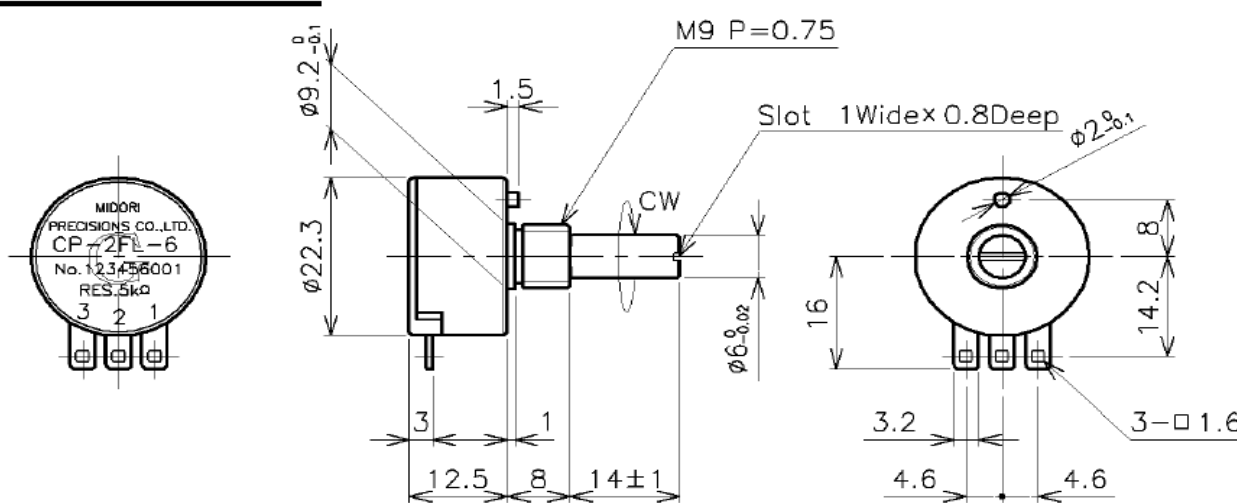
- Housing : PBT
- Shaft : Stainless Steel
- Metal Sleeve Bearing : Copper Alloy

Dimension (mm)

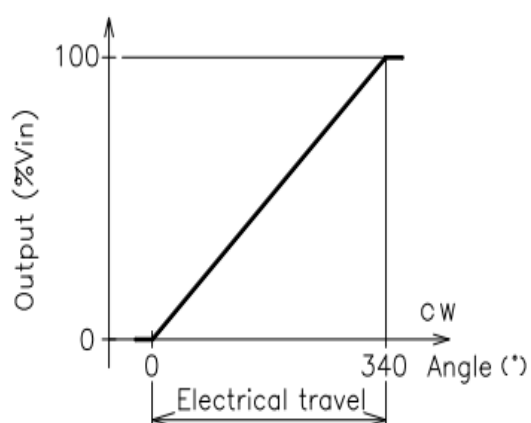
CP-2FL



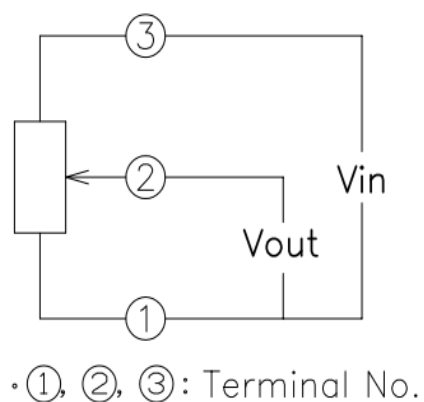
CP-2FL-6



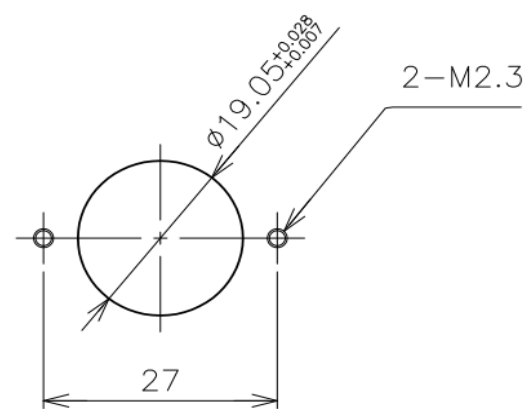
Output Characteristics



Schematic



Mounting



【Model No.】	CP-2FL <Φ3.175mm Shaft>	CP-2FL-6 <Φ6mm Shaft>
Electrical Specifications		
Effective Electrical Travel	340° + 2°、- 3°	
Total Resistance	1K, 2K, 5K, 10K Ω	
Total Resistance Tolerance	±20%	
Independent Linearity	±2%	
Rated Dissipation	0.5W/50°C	
Output Smoothness	MAX. 0.1%	
Insulation Resistance	MIN. 100MΩ/DC1000V	
Dielectric Strength	AC1000V/ 1 Minute	
Temperature Coefficient of Resistance	±400 ppm/K	
Mechanical Specifications		
Total Mechanical Travel	360° endless	
Torque	MAX.2mN · m	
Thrust Load Tolerance	2N	
Radial Load Tolerance	5N	
Mass	Approx. 20g	
Environmental Specifications		
Life Cycles	10 Million Cycle	
Category Temperature Range	-40 ~ +100 °C	
Storage Temperature Range	-40 ~ +100 °C	
Vibration	150m/S ² 2000Hz 3axis 2hours each	
Shock	500m/S ² 11ms 6directions 3times	

■ Accessories

M9 Nut

Toothed Lock Washer (Internal) 1pc each

■ Handling Instruction

- To avoid burnout of resistive element, do not supply more than 1mA current to terminal 2.
- Miswiring might cause burnout of resistive element.
- To reduce sliding noise, add load resistance should be more than 100times and less than 1000times of total resistance.
- Slight continuous vibration such as dither might cause short lifetime of the sensor.