

Conductive Plastic Angle Sensor

CP-2FC-6 Series

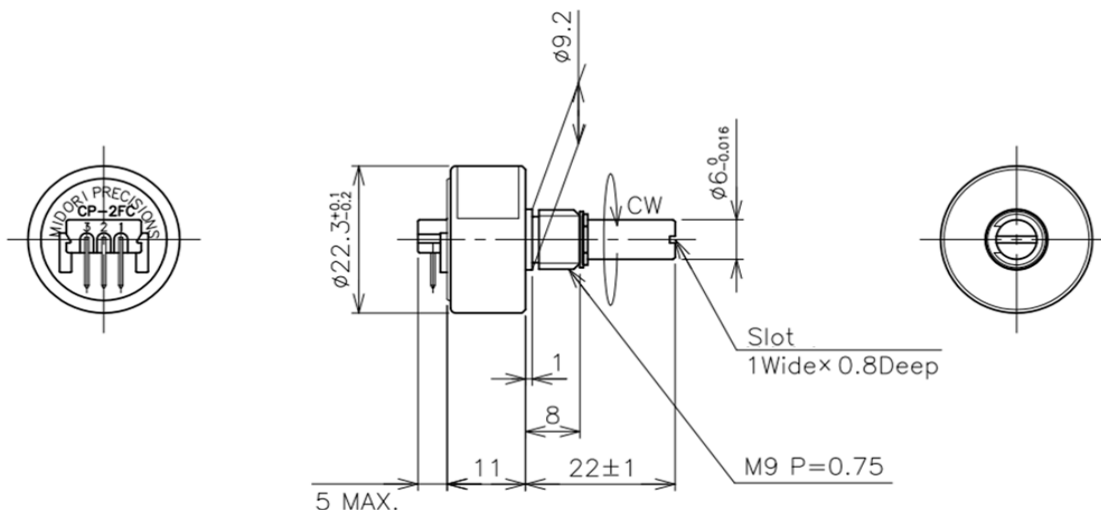


- Conductive Plastic Angle Sensor
- $\Phi 6$ mm Shaft
- Effective Electrical Travel : 340°
- Independent Linearity : $\pm 1\%$
- Bushing Mount
- CP-2FC-6 : Teflon Coating Bearing
- CP-2FCG-6 : Teflon Coating Bearing, O-ring

[Material]

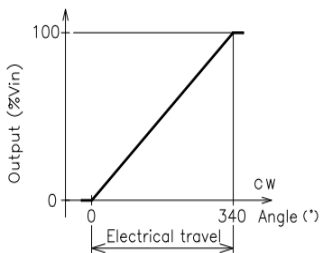
- Housing : Aluminum
- Shaft : Stainless Steel

■ Dimension (mm)

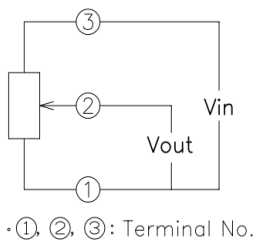


Matching Connector (**Not Included**): Hirose Electric Co. P/N HNC2-2.5S-3 (Housing), P/N HNC2-2.5S-D-A (PIN)

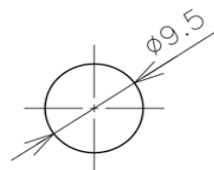
■ Output Characteristics



■ Schematic



■ Mounting



[Model No.]	CP-2FC-6	CP-2FCG-6
	<Teflon coating bearing>	<Teflon coating bearing, O-ring>
Electrical Specifications		
Effective Electrical Travel	340° + 2°, - 3°	
Total Resistance	1K, 5K Ω	
Total Resistance Tolerance	±20%	
Independent Linearity	±1%	
Rated Dissipation	0.5W/50°C	
Output Smoothness	MAX. 0.1%	
Insulation Resistance	MIN. 100MΩ/DC1000V	
Dielectric Strength	AC1000V/ 1 Minute	
TC of Resistance	±1000 ppm/K	
Mechanical Specifications		
Total Mechanical Travel	360° endless	
Running Torque	MAX. 3.4 mN · m	MAX. 20 mN · m
Thrust Load Tolerance	1.96 N	
Radial Load Tolerance	0.98 N	
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

Inner tooth lock washer 1piece 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.