

Conductive Plastic Angle Sensor

MIDORI CP-2FC-6 Series



General

- Conductive Plastic Angle Sensor
- Effective Electrical Travel: 340°
- Independent Linearity: $\pm 1\%$ FS
- Bushing Mount

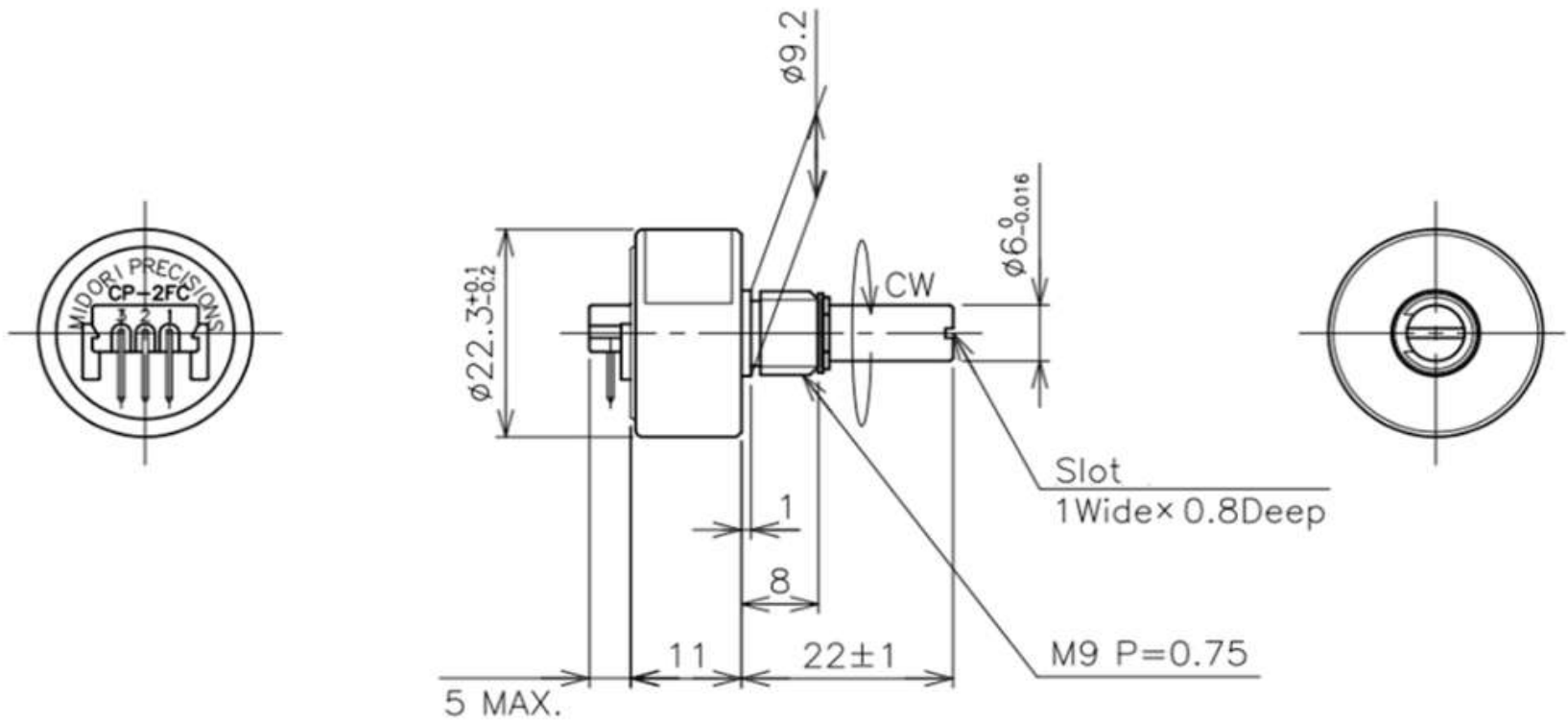
CP-2FC-6 : Teflon Coating Bearing

CP-2FCG-6: Teflon Coating Bearing & O-ring

Material

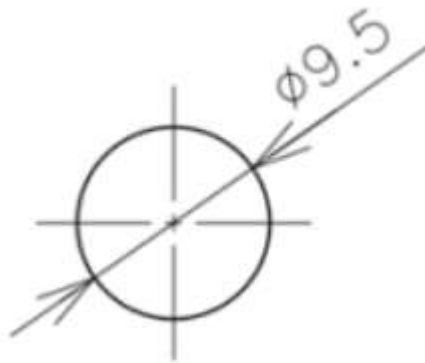
- Housing: Aluminum
- Shaft: Stainless Steel

Dimension (mm)

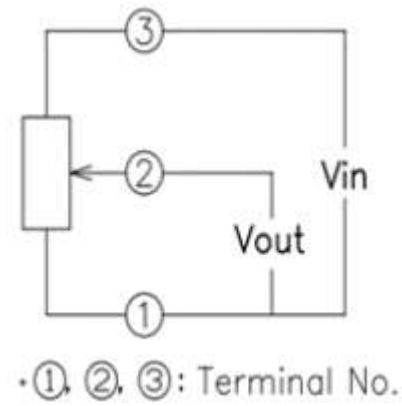


Matching Connector (**Not Included**): Hirose Electric Co. P/N HNC2-2.5S-3 (Housing), P/N HNC2-2.5S-D-A (PIN)

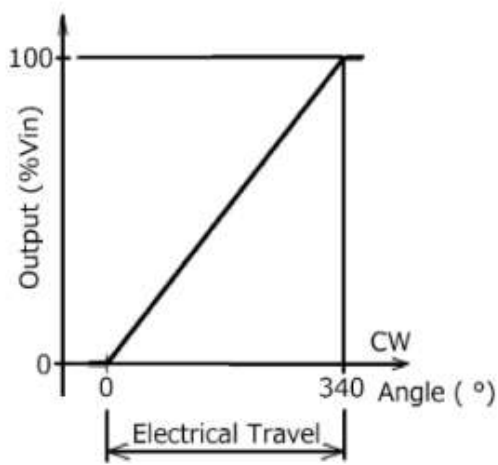
Mounting(mm)



Schematic



Output Characteristics



Specifications

	CP-2FC-6	CP-2FBGJ-6
	<Teflon Coating Bearing>	<Teflon Coating Bearing & O-ring>
Electrical Specifications		
Effective Electrical Travel		340° +2°, -3°
Output Range		1K, 5K Ω
Total Resistance Tolerance		±20%
Independent Linearity		±1%
Rated Dissipation		0.5W/ 50°C
Output Smoothness		0.1% MAX.
Insulation Resistance		100MΩMIN./DC1000V
Dielectric Strength		AC1000V/ 1Minute
TC of Resistance		±1000ppm/K
Mechanical Specifications		
Total Mechanical Travel		360° Endless
Running Torque	3.4mN · m MAX.	20mN · m MAX.
Thrust Load Tolerance		1.96N
Radial Load Tolerance		0.98N
Weight		Approx. 20g
Environmental Specifications		
Life Cycles		10 Million cycles MIN.
Category Temp. Range		-40~+100°C
Storage Temp. Range		-40~+100°C
Vibration		150m/S2 2000Hz 3axis 2hours each
Shock		500m/S2 11ms 6directions 3times

Accessories

M9 Nut and Inner tooth lock washer, 1 piece 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.