

Conductive Plastic Angle Sensor

# CP-2FBJ-6 Series



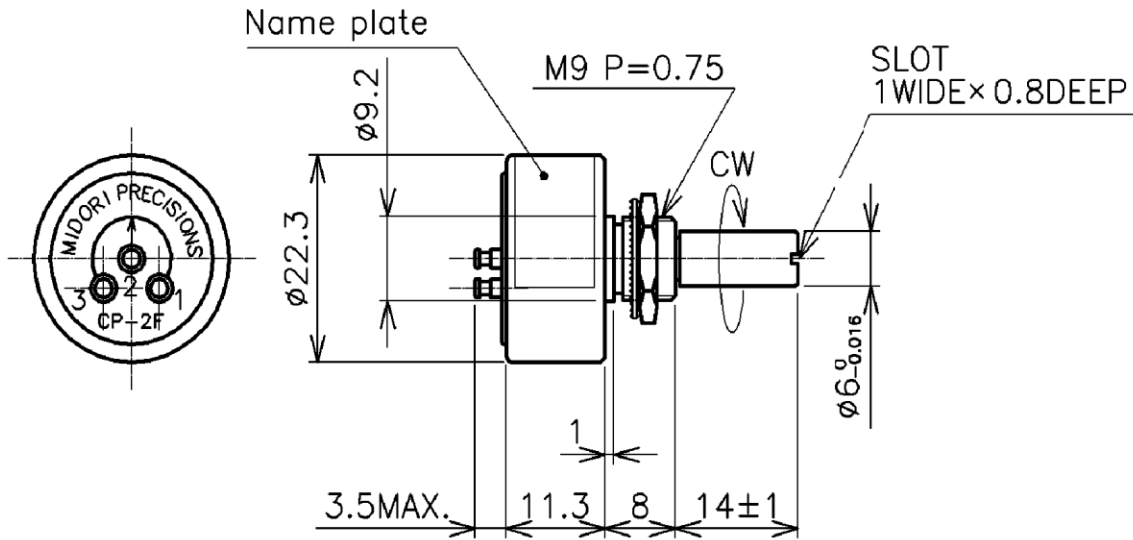
- Conductive Plastic Angle Sensor
- Effective Electrical Angle: 340°
- Independent Linearity: ±1%, ±0.5%
- Bushing Mount

- CP-2FBJ-6: Ball Bearing
- CP-2FBGJ-6: Metal Sleeve Bearing & O-ring

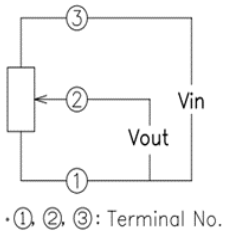
**[Material]**

- Housing : Aluminum
- Shaft : Stainless Steel
- Bearing : CP-2FBJ-6 --- Ball Bearing: Stainless Steel  
: CP-2FBGJ-6 --- Metal Sleeve Bearing: Copper Alloy

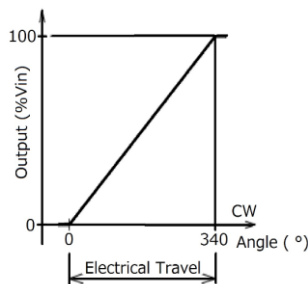
**Dimension (mm)**



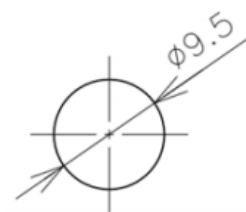
**Schematic**



**Output Characteristics**



**Mounting**



[Model No.]	CP-2FBJ-6	CP-2FBGJ-6
	<Ball Bearing>	<Metal Sleeve Bearing & O-ring>

[Electrical Specifications]	
Effective Electrical Angle	340° +2°, -3°
Total Resistance	1K, 2K, 5K, 10K Ω
Total Resistance Tolerance	±20%
Independent Linearity	±1%, ±0.5%
Rated Dissipation	0.5W/50°C
Output Smoothness	0.1% MAX.
Insulation Resistance	100MΩ MIN./DC1000V
Dielectric Strength	AC1000V/ 1 Minute
TC of Resistance	±400 ppm/K

[Mechanical Specifications]	
Total Mechanical Travel	360° Endless
Running Torque	3.5mN · m MAX.      20mN · m MAX.
Thrust Load Tolerance	1N
Radial Load Tolerance	2N
Weight	Approx. 20g

[Environmental Specifications]	
Life Cycles	10 Million Cycle
Category Temp. Range	-40 ~ +100°C
Storage Temp. Range	-40 ~ +100°C
Vibration	150m/S <sup>2</sup> 2000Hz 3axis 2hours each
Shock	500m/S <sup>2</sup> 11ms 6 directions 3 times

#### ■ Accessories

M9 nut

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 100 times and less than 1000 times of total resistance.
- Slight continuous vibration such as dither might cause short lifetime of the sensor.