

Conductive Plastic Angle Sensor

# CP-2FKJ Series



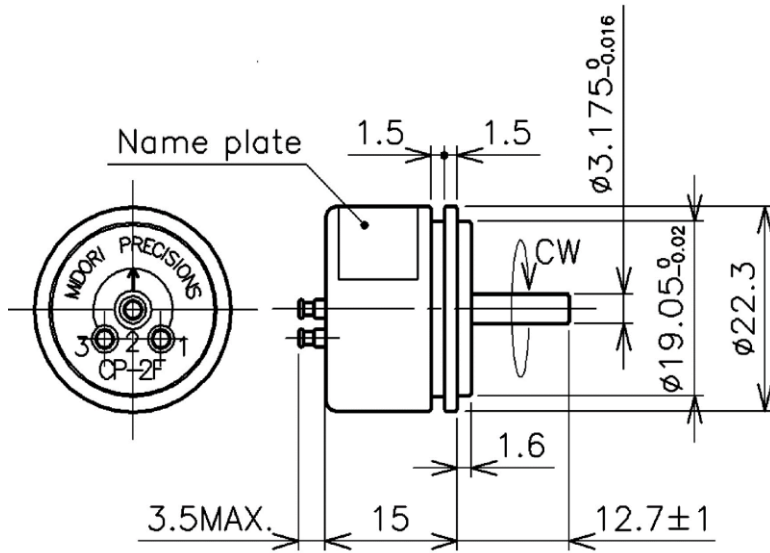
- Conductive Plastic Angle Sensor
- Effective Electrical Angle: 340°
- Independent Linearity: ±1%, ±0.5%
- Servo Mount

- CP-2FK(b)J: Ball Bearing
- CP-2FK(m)J: Metal Sleeve Bearing

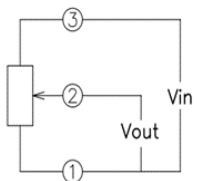
**[Material]**

- Housing : Aluminum
- Shaft : Stainless Steel
- Bearing : CP-2FK(b)J--- Ball Bearing: Stainless Steel  
: CP-2FK(m)J--- Metal Sleeve Bearing: Copper Alloy

**■ Dimension (mm)**

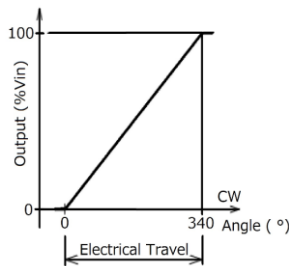


**■ Schematic**

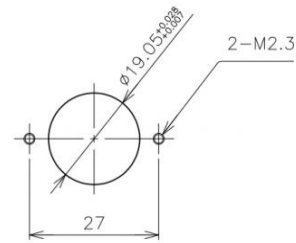


①, ②, ③: Terminal No.

**■ Output Characteristics**



**■ Mounting**



[Model No.]	CP-2FK(b)J	CP-2FK(m)J
	<Ball Bearing>	<Metal Sleeve Bearing>

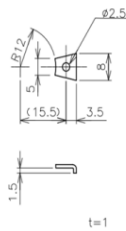
[Electrical Specifications]		
Effective Electrical Angle	340° +2°, -3°	
Total Resistance	1K, 2K, 5K, 10K Ω	
Total Resistance Tolerance	±20%	
Independent Linearity	±1%, ±0.5%	
Rated Dissipation	0.5W/50°C	
Output Smoothness	0.1% MAX.	
Insulation Resistance	100MΩ MIN./DC1000V	
Dielectric Strength	AC1000V/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

[Mechanical Specifications]		
Total Mechanical Travel	360° Endless	
Running Torque	0.5mN · m MAX.	2mN · m MAX.
Thrust Load Tolerance	2N	
Radial Load Tolerance	5N	
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

Mounting Cleats: 2 pieces



■ 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.