

Conductive Plastic Angle Sensor

# CP-2FCB(m) Series

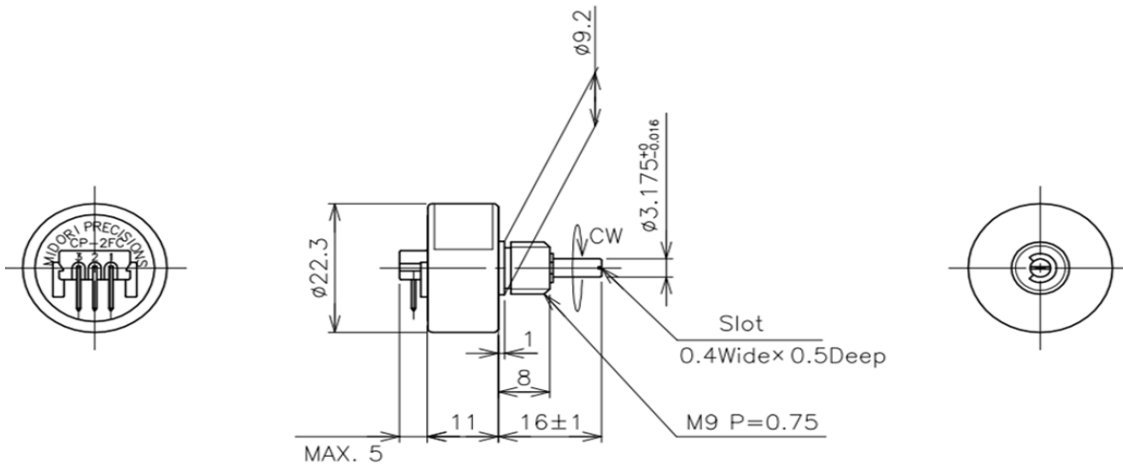


- Conductive Plastic Angle Sensor
- Effective Electrical Travel : 340°
- Independent Linearity : ±1%
- Bushing Mount
- Metal Sleeve Bearing

**[Material]**

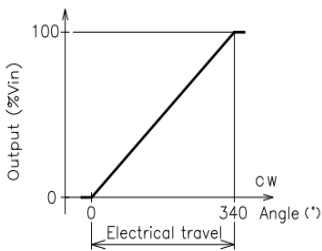
- Housing : Aluminum
- Shaft : Stainless Steel
- Bearing : Copper Alloy

**■ Dimension (mm)**

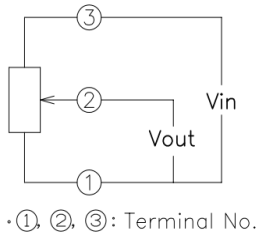


Matching Connector (**Not Included**): Hirose Electric Co. P/N HNC2-2.5S-3 (Housing), P/N HNC2-2.5S-D-A (PIN)

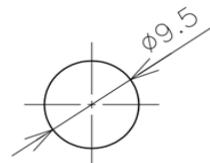
**■ Output Characteristics**



**■ Schematic**



**■ Mounting**



[Model No.]	CP-2FCB(m)	
<b>Electrical Specifications</b>		
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	
<b>Mechanical Specifications</b>		
Total Mechanical Travel	360° endless	
Torque	MAX. 2 mN · m	
Thrust Load Tolerance	2 N	
Radial Load Tolerance	5 N	
Mass	Approx. 20g	
<b>Environmental Specifications</b>		
Life Cycles	10 Million Cycle	
Category Temperature Range	-40 ~ +100 °C	
Storage Temperature Range	-40 ~ +100 °C	
Vibration	150m/S <sup>2</sup> 2000Hz 3axis 2hours each	
Shock	500m/S <sup>2</sup> 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.