

# Conductive Plastic Angle Sensor

## MIDORI CP-2FCB(m) Series



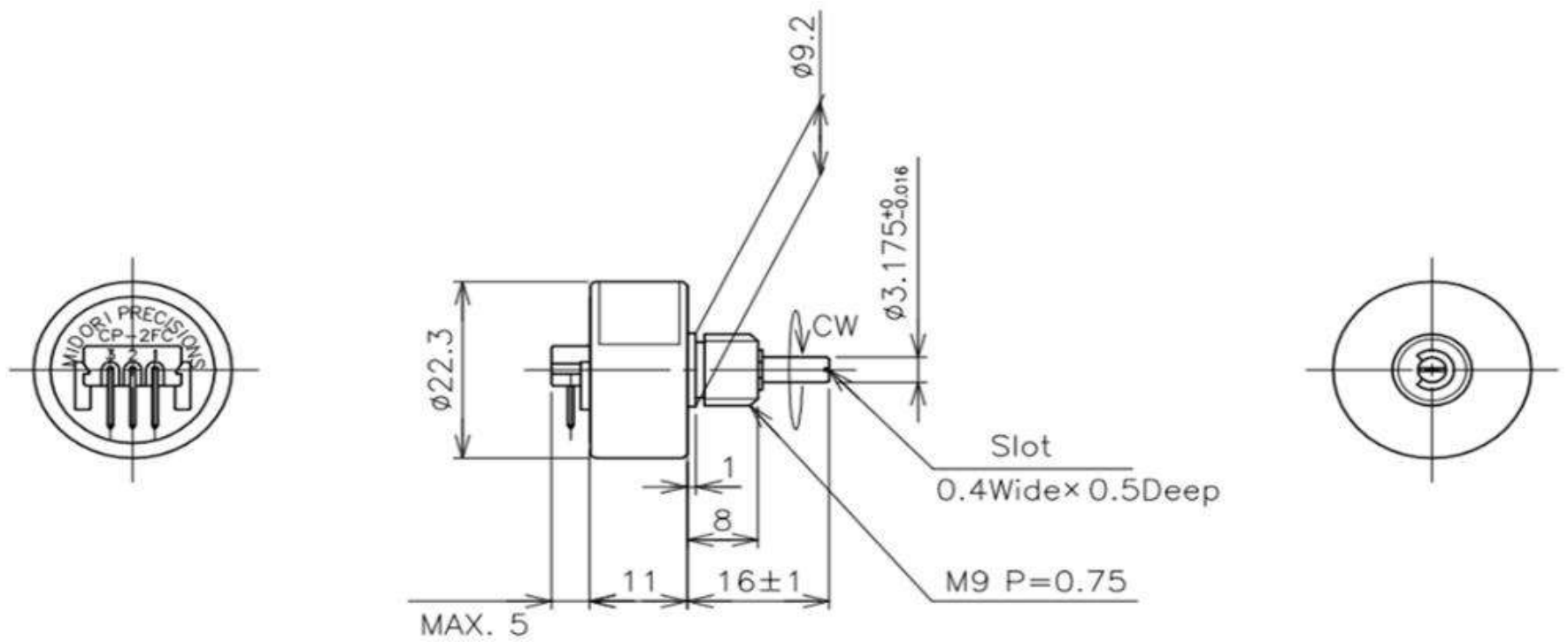
### General

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

### Material

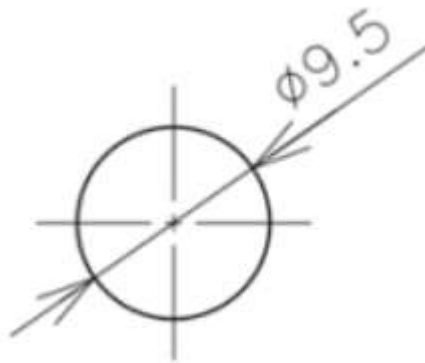
- Housing: Aluminum
- Shaft: Stainless Steel
- Bearing: Stainless Steel

### Dimension (mm)

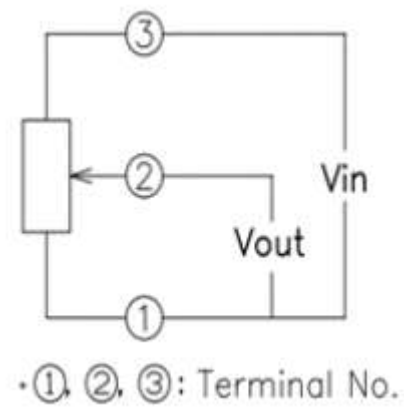


Matching Connector (**Not Included**): Hirose Electric Co. P/N HNC2-2.5S-3 (Housing), P/N HNC2-2.5S-D-A (PIN)

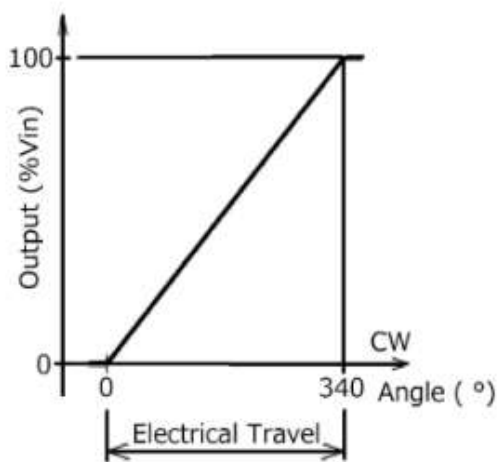
### Mounting(mm)



### Schematic



# Output Characteristics



# Specifications

## 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	100MΩ MIN./DC1000V
Dielectric Strength	AC1000V/ 1Minute
TC of Resistance	±1000ppm/K

## Mechanical Specifications

Total Mechanical Travel	360° Endless
Running Torque	2mN · m MAX.
Thrust Load Tolerance	2N
Radial Load Tolerance	5N
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/S <sup>2</sup> 2000Hz 3axis 2hours each
Shock	500m/S <sup>2</sup> 11ms 6directions 3times

# Accessories

M9 Nut and Inner tooth lock washer, 1piece each
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# 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.