

Conductive Plastic Angle Sensor

# CPP-60 Series

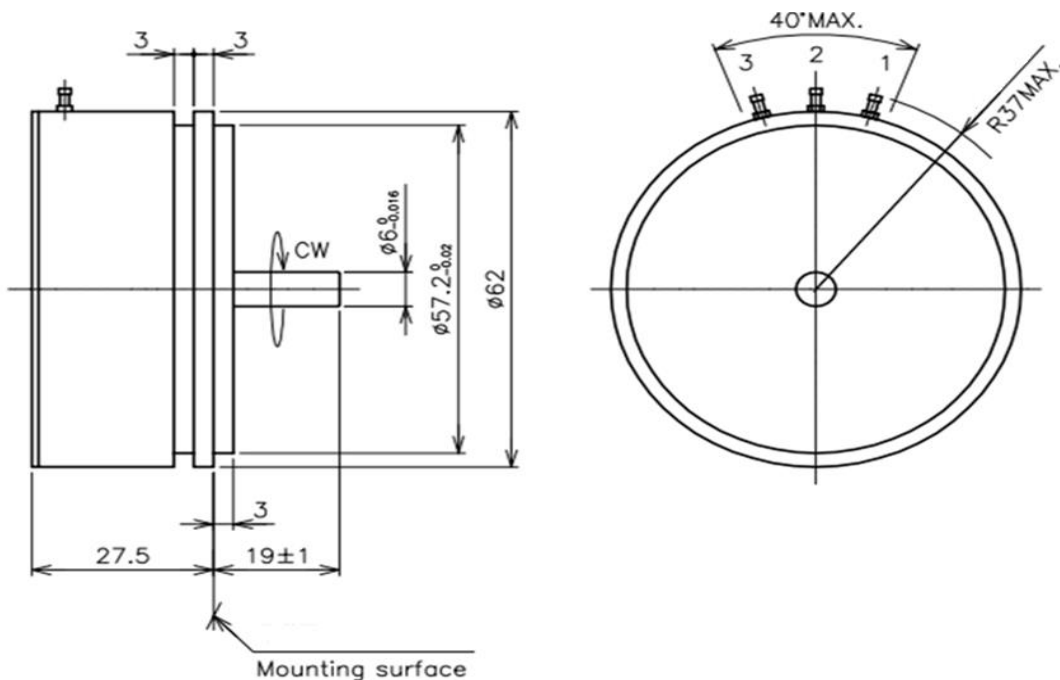


- Conductive Plastic Angle Sensor
- Effective Electrical Travel : 355°
- Independent Linearity : ±0.05% (Special Linearity : ±0.03%)
- Servo Mount

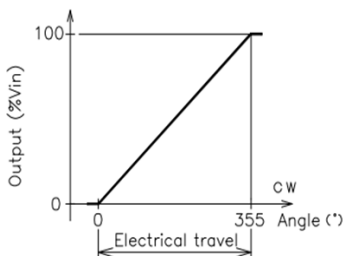
**[Material]**

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

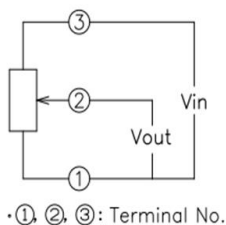
## ■ Dimension (mm)



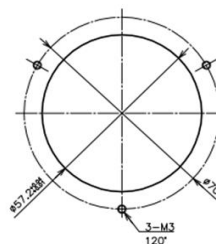
## ■ Output Characteristics



## ■ Schematic



## ■ Mounting



<b>[Model No.]</b>	<b>CPP-60</b>
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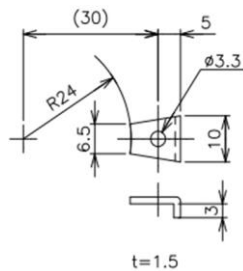
<b>Electrical Specifications</b>	
Effective Electrical Travel	355° +1°, -2°
Total Resistance	0.5, 1K, 2K, 5K, 10K, 20K Ω
Total Resistance Tolerance	±15%
Independent Linearity	±0.05% (Special Linearity ±0.03%)
Rated Dissipation	3 W/70 °C
Output Smoothness	MAX. 0.1%
Insulation Resistance	MIN. 100MΩ/DC1000V
Dielectric Strength	AC1000V/ 1 Minute
TC of Resistance	±400 ppm/K

<b>Mechanical Specifications</b>	
Total Mechanical Travel	360° endless
Torque	25mN · m MAX.
Thrust Load Tolerance	2N
Radial Load Tolerance	4N
Mass	Approx. 170g

<b>Environmental Specifications</b>	
Life Cycles	10 Million Cycle
Category Temperature Range	-40 ~ +120 °C
Storage Temperature Range	-40 ~ +120 °C
Vibration	150m/S <sup>2</sup> 2000Hz 3axis 2hours each
Shock	500m/S <sup>2</sup> 11ms 6directions 3times

#### ■ Accessories

Mounting Cleats : 3 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 100times and less than 1000times of total resistance.
- Slight continuous vibration such as dither might cause short lifetime of the sensor.