

Conductive Plastic Angle Sensor

# CPP-35 Series



- Conductive Plastic Angle Sensor
- Effective Electrical Travel : 340°
- Independent Linearity : ±1% (Special Linearity : ±0.2%)
- Servo Mount & Screw Mount

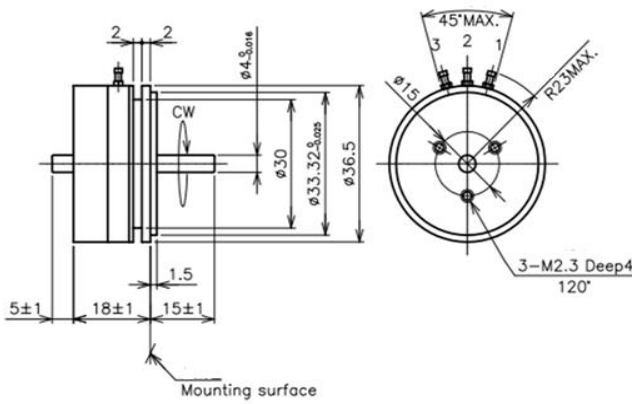
- CPP-35 : Ø4mm Shaft
- CPP-35B : Ø6mm Shaft

**[Material]**

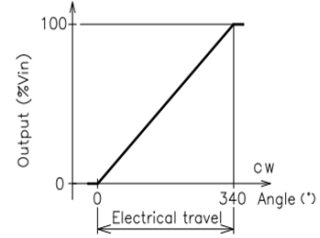
- Housing : Aluminum
- Shaft : Stainless Steel
- Ball Bearing : Stainless Steel

**■ Dimension (mm)**

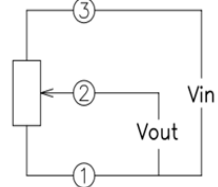
CPP-35



**■ Output Characteristics**

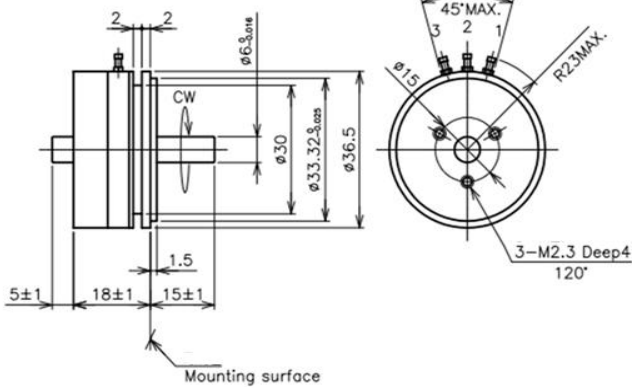


**■ Schematic**

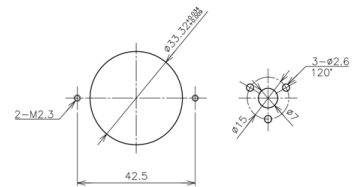


• ①, ②, ③: Terminal No.

CPP-35B



**■ Mounting**



[Model No.]	CPP-35	CPP-35B
	<Φ4mm Shaft>	<Φ6mm Shaft>
<b>Electrical Specifications</b>		
Effective Electrical Travel	340° + 2°、-3°	
Total Resistance	0.5, 1K, 2K, 5K, 10K Ω	
Total Resistance Tolerance	±20%	
Independent Linearity	±1% (Special Linearity ±0.2%)	
Rated Dissipation	2 W/70 °C	
Output Smoothness	MAX. 0.1%	
Insulation Resistance	MIN. 100MΩ/DC1000V	
Dielectric Strength	AC1000V/ 1 Minute	
TC of Resistance	±400 ppm/K	

Mechanical Specifications		
Total Mechanical Travel	360° endless	
Torque	1.4 mN · m MAX. (Additional 1.2mN · m/add one gang)	
Thrust Load Tolerance	2N	3N
Radial Load Tolerance	4N	5N
Mass	Approx. 40g (Additional 10g/add one gang)	

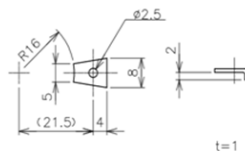
Environmental Specifications		
Life Cycles	10 Million Cycle	
Category Temperature Range	-40 ~ +100 °C	
Storage Temperature Range	-40 ~ +100 °C	
Vibration	150m/S <sup>2</sup> 2000Hz 3axis 2hours each	
Shock	500m/S <sup>2</sup> 11ms 6directions 3times	

#### ■ Options

- Multi Ganging: More than 3 sections --- Please contact us
- Additional Center Tap: C.T(A) ... No shorted angle  
C.T(B) ... Shorted on Tap (Shorted angle 1°~5°)

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