

Conductive Plastic Angle Sensor

CPP-45BJ Series

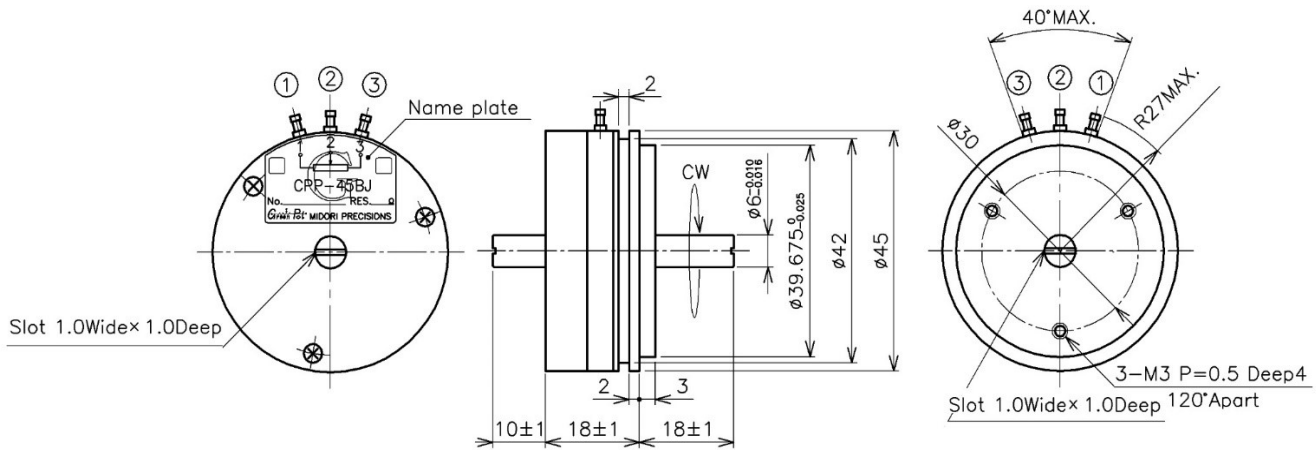


- Conductive Plastic Angle Sensor
- Effective Electrical Travel : 350°
- Independent Linearity : $\pm 0.3\%$ (Special Linearity : $\pm 0.1\%$)
- Servo Mount & Screw Mount
- Shaft Diameter : $\Phi 6\text{mm}$
- Ball Bearing

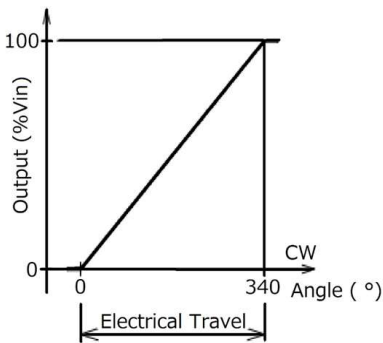
【Material】

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

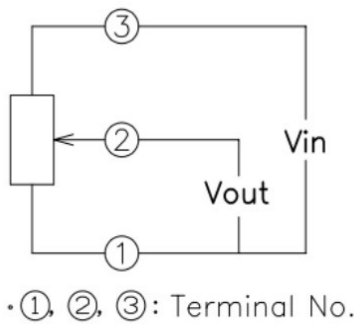
Dimension (mm)



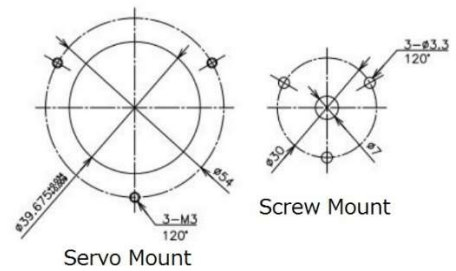
Output Characteristics



Schematic



Mounting



【Model No.】	CPP-45BJ
Electrical Specifications	
Effective Electrical Travel	350° +2°, -3°
Total Resistance	1K, 5K, 10K Ω
Total Resistance Tolerance	±15%
Independent Linearity	±0.3% (Special Linearity ±0.1%)
Rated Dissipation	3W/70°C
Output Smoothness	0.1% MAX.
Insulation Resistance	MIN. 100MΩ/DC1000V
Dielectric Strength	AC1000V/1minute
TC of Resistance	±400 ppm/K

Mechanical Specifications	
Total Mechanical Travel	360° Endless
Torque	1.8mN · m MAX. (Additional 1.5mN · m/add one gang)
Thrust Load Tolerance	2N
Radial Load Tolerance	6N
Mass	Approx. 60g (Additional 10g/add one gang)

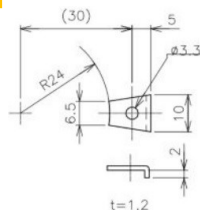
Environmental Specifications	
Life Cycles	10M Cycle
Category Temperature Range	-40 ~ +100°C
Storage Temperature Range	-40 ~ +100°C
Vibration	200m/S ² 2000Hz 3axis 2hours each
Shock	600m/S ² 11ms 6directions 3times each

■ Options

- Shaft dia Φ4mm : CPP-45J
- Additional Center Tap: CPP-45BJ-CT(A) ... No shorted angle
CPP-45BJ-CT(B) ... Shorted on Tap (Shorted angle approx. 3°)
- Multi Ganging : up to 2 sections

■ 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.