#### Conductive Plastic Angle Sensor

# CPP-45 Series



**■** Dimension [mm]

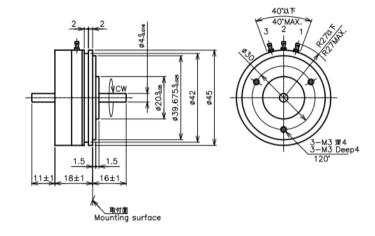
CPP-45

- ·Conductive Plastic Angle Sensor •Effective Electrical Travel: 350°
- Independent Linearity : ±0.3% (Special Linearity : ±0.1%)
  Servo Mount and Screw Mount

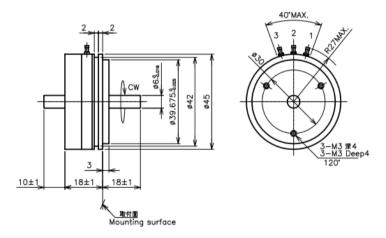
•CPP-45 :  $\phi$  4mm Shaft •CPP-45B  $\phi$  6mm Shaft

[Material]

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



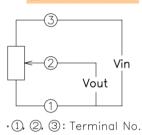
### CPP-45B



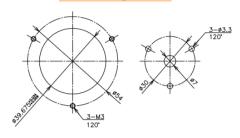
#### **■**Output Characteristics

## 100-Output (%Vin) CW 0 -350 Angle (\*) Electrical travel

#### **■**Schematic



#### **■**Mounting



Servo Mount

**Screw Mount** 

[Model No.]	CPP-45	CPP-45B
	< φ 4mm Shaft>	< φ 6mm Shaft>

[Electrical Specifications]		
Effective Electrical Travel	350 +2, -3	0
Total Resistance	0.5, 1, 2, 5, 10, 20	kΩ
Total Resistance Tolerance	±15	%
Independent Linearity	±0.3 (Special Linearity ±0.1%)	%
Rated Dissipation	3/70℃	W
Output Smoothness	MAX. 0.1	%
Insulation Resistance	MIN. 100/DC1000V	ΜΩ
Dielectric Strength	AC1000/1 Minute	V
Temperature Coefficient of Resistance	±400	ppm/K

[Mechanical Specifications]			
Total Mechanical Travel	360 Endless		0
Torque	MAX. 1.8 (Additional 1.5mN·m/add one gang)		mN⋅m
Thrust Load Tolerance	1	2	N
Radial Load Tolerance	5	6	N
Mass	Approx. 60 (Additional 10g/add one gang)		g

#### [Environmental Specifications]

Lantin Crimicinal Operations		
Life Cycles	10 Million	Cycle
Category Temperature Range	-40 ~ <b>+</b> 120	℃
Storage Temperature Range	-40 ~ <b>+</b> 120	℃
Vibration	150m/s2 2000Hz 3 axis 2 hours each	
Shock	500m/s2 11ms 6 directions 3 times	

#### **■**Options

•Multi Ganging: More than 4 sections, please contact us.

·Additional Taps : Up to 8 taps

For Output : Type (A) ... No shorted angle For Input : Type (B) ... 1~5°shorted on Tap

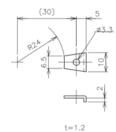
Additional Center Tap:

C.T(A) ... No shorted angle

C.T(B) ... Shorted on Tap (Shorted angle 1~5°)

#### ■ 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.