

Conductive Plastic Angle Sensor

# CP-2FL Series

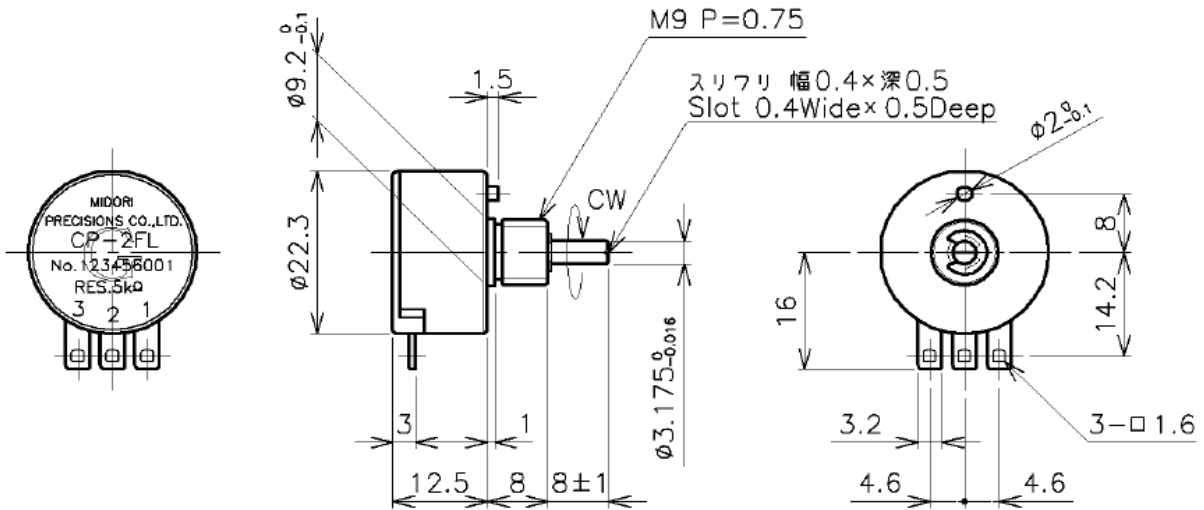


- Conductive Plastic Angle Sensor
- Mass Production Design of CP-2FK(m)J
- Effective Electrical Travel : 340°
- Independent Linearity : ±2%
- Bushing Mount
- Metal Sleeve Bearing

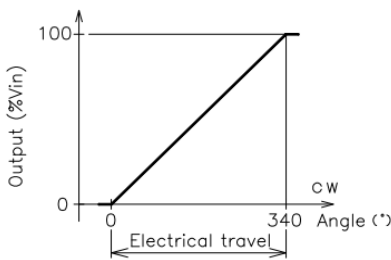
**【Material】**

- Housing : PBT
- Shaft : Sainless Steel
- Metal Sleeve Bearing : Copper Alloy

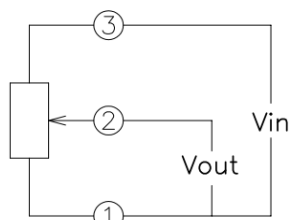
**Dimension [mm]**



**Output Characteristics**

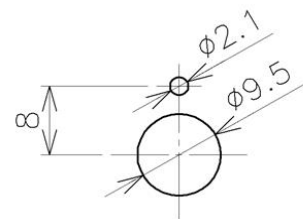


**Schematic**



①, ②, ③: Terminal No.

**Mounting**



<b>【Model No.】</b>	CP-2FL
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**【Electrical Specifications】**

Effective Electrical Travel	340 +2, -3	°
Total Resistance	1, 2, 5, 10	kΩ
Total Resistance Tolerance	±20	%
Independent Linearity	±2	%
Rated Dissipation	0.5/50°C	W
Output Smoothness	MAX. 0.1	%
Insulation Resistance	MIN. 100/DC1000V	MΩ
Dielectric Strength	AC1000/1 Minute	V
Temperature Coefficient of Resistance	±400	ppm/K

**【Mechanical Specifications】**

Total Mechanical Travel	360 Endless	°
Torque	MAX. 2	mN·m
Thrust Load Tolerance	2	N
Radial Load Tolerance	5	N
Mass	Approx. 20	g

**【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 2 hours each	
Shock	500m/s <sup>2</sup> 11ms 6 directions 3 times	

**■Options**

CP-2FL-6 : Shaft dia Φ6, Metal Sleeve Bearing

**■Accessories**

M9 Nut  
Toothed Lock Washer (Internal) 1pcs each

**■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.