Conductive Plastic Angle Sensor

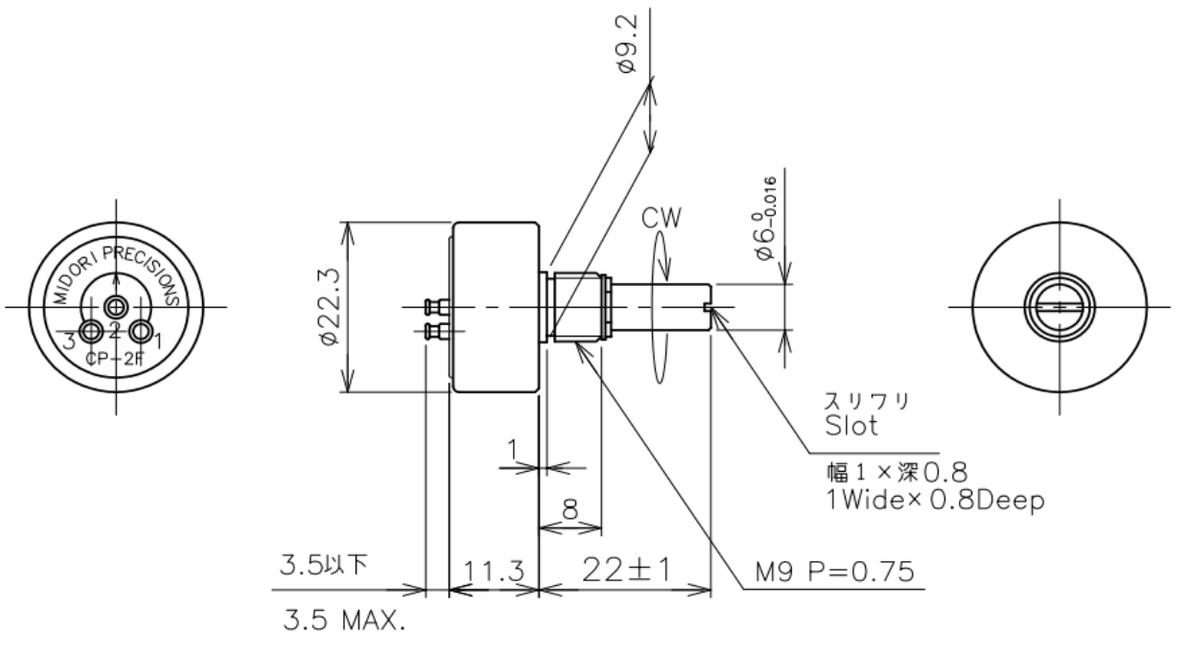
CP-2FB-6 Series

・Conductive Plastic Angle Sensor
・φ6mm Shaft
・Effective Electrical Travel ：340°
・Independent Linearity ：±1%
・Bushing Mount

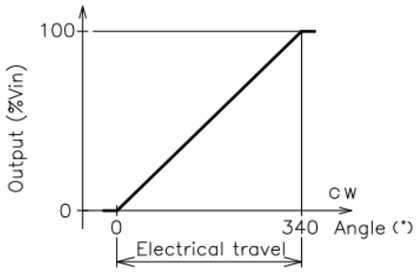
・CP-2FB-6 ： Teflon coating bearing
・CP-2FBG-6 ： Teflon coating bearing, O-Ring

【Material】
●Housing ：Aluminum
●Shaft ：Stainless Steel

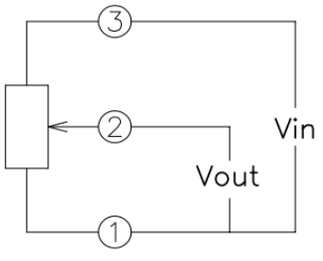
■Dimension [mm]



■Output Characteristics

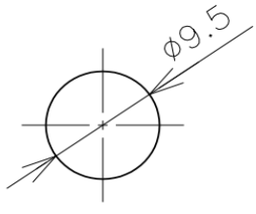


■Schematic



・①, ②, ③: Terminal No.

■Mounting



MIDORI PRECISIONS
URL: http://www.midori.co.jp
E-mail: overseas@midori.co.jp

【Model No.】	CP-2FB-6 <Teflon coating bearing>	CP-2FBG-6 <Teflon coating bearing , O-ring>	
【Electrical Specifications】			
Effective Electrical Travel	340 +2、-3		°
Total Resistance	0.5、1、2、5		kΩ
Total Resistance Tolerance	±20		%
Independent Linearity	±1		%
Rated Dissipation	0.5/50℃		W
Output Smoothness	MAX. 0.1		%
Insulation Resistance	MIN. 100/DC1000V		MΩ
Dielectric Strength	AC1000/1Minute		V
Temperature Coefficient of Resistance	±400		ppm/K
【Mechanical Specifications】			
Total Mechanical Travel	360 Endless		°
Running Torque	MAX. 3.5	MAX. 20	mN·m
Thrust Load Tolerance	1		N
Radial Load Tolerance	2		N
Mass	Approx. 20		g
【Environmental Specifications】			
Life Cycles	10 Million		Cycle
Category Temperature Range	-30～+100		℃
Storage Temperature Range	-30～+100		℃
Vibration	150m/s^2 2000Hz 3axis 2hours each		
Shock	500m/s^2 11ms 6directions 3times		

■Accessories

M9 nut
Internal tooth lock washer 1 piece 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.

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