

CP-22H Multi-turn Series



- Contactless Angle Sensor (Multi-turns)
- Effective Electrical Angle : $\pm 900^\circ$ - $\pm 9000^\circ$
- Absolute Linearity : $\pm 1\%$ FS
- IP Rating : IP67
- Output : Dual Output

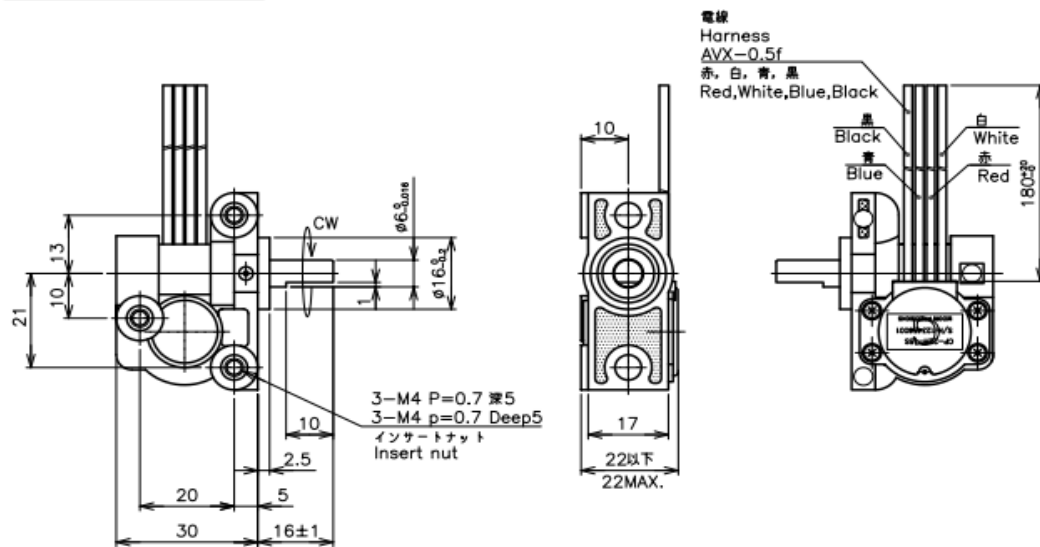
【Material】

- Housing : PBT
- Shaft : Stainless Steel
- Bearing : Stainless Steel

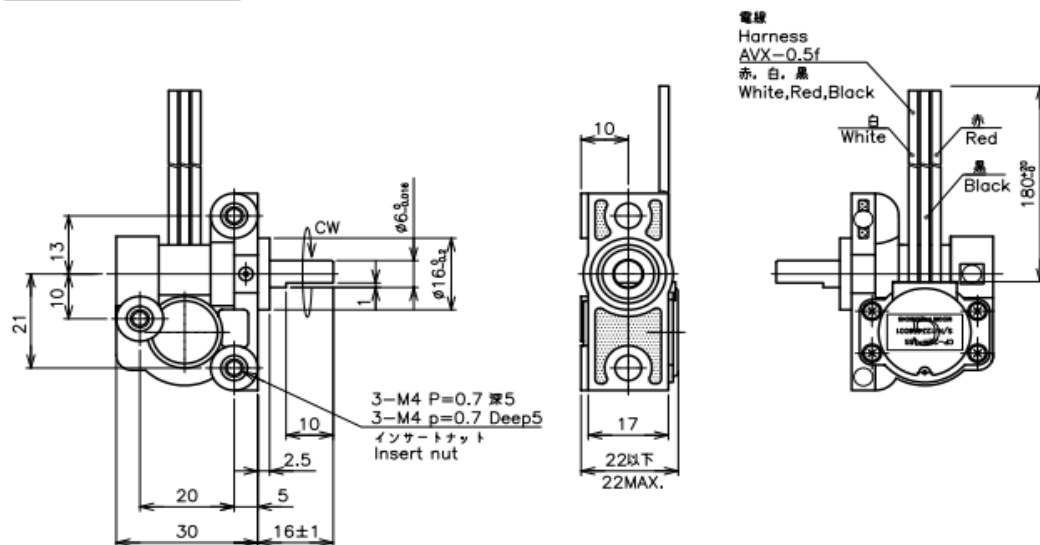
■ Dimension

CP-22HC-xxS xx=12,50

CP-22HP-xxS

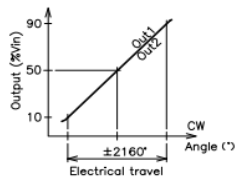


CP-22H-xxS

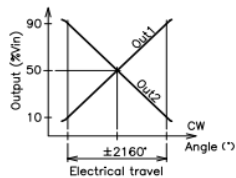


Output Characteristics

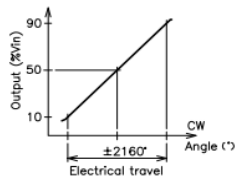
CP-22HP-12S



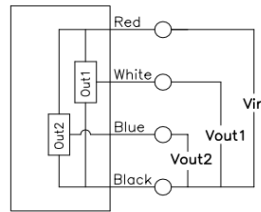
CP-22HC-12S



CP-22H-12S

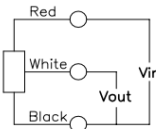


Schematic

CP-22HC-12S
CP-22HP-12S

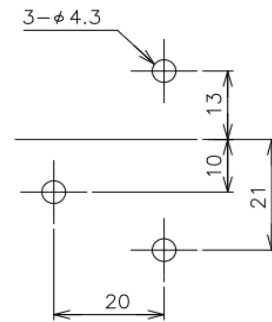
• Red, White, Blue, Black indicate lead colors.

CP-22H-12S



• Red, White, Black indicate lead colors.

Mounting



【Model No.】	CP-22HP-12S	CP-22HC-12S	CP-22H-12S	CP-22HP-50S	CP-22HC-50S	CP-22H-50S
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【Electrical Data】

Effective Electrical Travel	4320		18000		°	
Output Range	10~90				%Vin	
Absolute Linearity	±1				%FS	
Input Voltage	DC5±0.5				V	
Load Resistance	10~150				kΩ	
Supply Current	MAX.16(CP-22H-xxS) / MAX.32(CP-22HC-xxS,CP-22HP-xxS)				mA	
Insulation Resistance	MIN. 100/DC50				MΩ	
Resolution	12(0~100%Vin)				bit	
Response time	0.9 MAX.				ms	
Hysteresis	MAX. 0.5				%FS	
Temp. Characteristics -40~100°C(Reference	MAX. ±27		MAX. ±112.5		°	
2 Output Error	Difference:±1	Sum:100±1	-	Difference:±1	Sum:100±1	%Vin

【Mechanical Data】

Total Mechanical Travel	360 Endless		°	
Torque	MAX.4		mN·m	
Thrust Load Tolera	4		N	
Radial Load Tolera	4		N	
Mass	46 Approx.		g	

【Environmental Data】

Life Cycles	10 Million(Room Temp., No Load, cw/ccw)		Cycle	
Operating Temp.	-40~+100 (No condensation)		°C	
Storage Temperature Range	-50~+100 (No condensation)		°C	
Vibration	5~500Hz(6min) 200m/s ² (20G) 3directions 2hours each			
Shock	1000m/s ² (100G) 6directions 3times			
EMS	100V/m 15k~1GHz (ISO 11452)			
ESD(Case-Each Terminal)	MAX.±25kV(IEC 61000-4-2)			
ESD(Each Terminal)	MAX.±12kV(IEC 61000-4-2)			
IP Rating	IP54			

【Model No.】	CP-22HSP-12S	CP-22HSC-12S	CP-22HS-12S	CP-22HSP-50S	CP-22HSC-50S	CP-22HS-50S
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【Mechanical Data】

Torque	MAX.25	mN·m
Mass	46 Approx.	g

【Environmental Data】

IP Rating	IP67
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※Other specifications are the same as without seal.

■ Handling Instruction

- This product may be influenced from external magnetic field.
- Use this sensor in the place where is protected from ESD.