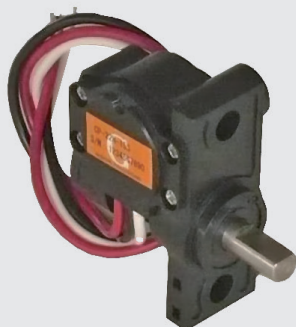


DRIP-PROOF MULTI-TURN DUAL OUTPUT

HALL IC CONTACTLESS ROTARY ANGLE TYPE

CP-22H series

RoHS compliant



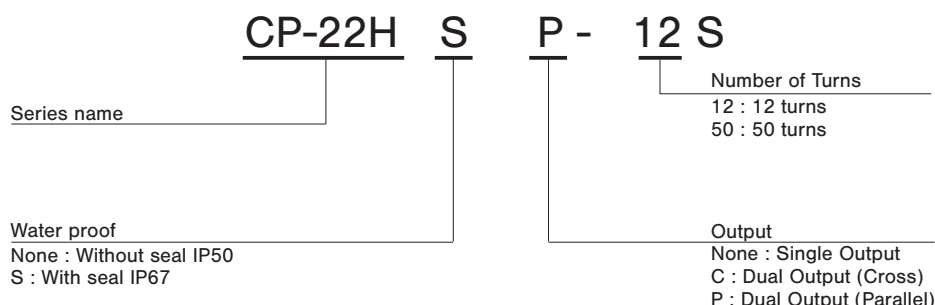
FEATURES

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

MATERIAL

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

PART NUMBER DESIGNATION



STANDARD SPECIFICATIONS

Electrical characteristics

Item	Part No.	CP-22HP-12S	CP-22HC-12S	CP-22H-12S	CP-22HP-50S	CP-22HC-50S	CP-22H-50S
		CP-22HSP-12S	CP-22HSC-12S	CP-22HS-12S	CP-22HSP-50S	CP-22HSC-50S	CP-22HS-50S
Effective Electrical Travel		4320°			18000°		
Output Range		10 ~ 90 %Vin					
Absolute Linearity		±1 %FS					
Input Voltage		5±0.5 VDC					
Load Resistance		10 ~ 150 kΩ					
Supply Current		16 mA max. (CP-22H-xxS) / 32 mA max. (CP-22HC-xxS, CP-22HP-xxS)					
Insulation Resistance		100 MΩ min. / 50 VDC					
Resolution		12 bit (0 ~ 100 %Vin)					
Response time		0.9 ms max.					
Hysteresis		0.5 %FS max.					
Temp. Characteristics -40 ~ 100°C (Reference)		±27° max.			±112.5° max.		
2 Output Error		Difference: ±1%Vin	Sum:100±1 %Vin	-	Difference: ±1%Vin	Sum:100±1 %Vin	-

CP-22H

POTENTIOMETERS

STANDARD SPECIFICATIONS

Mechanical characteristics

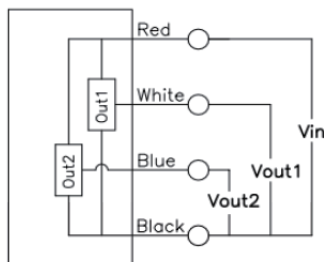
Total Mechanical Travel	360° Endless
Torque	Without seal 4 mN·m max. With seal 25 mN·m max.
Thrust Load Tolerance	4 N
Radial Load Tolerance	4 N
Net weight	Approx.46 g

Environmental characteristics

Life Cycles	10 Million (Room Temp., No Load, CW/CCW)
Operating Temp.	-40 ~ +100°C (No condensation)
Storage Temp.	-50 ~ +100°C (No condensation)
Vibration	5 ~ 500 Hz (6min) 200 m/s ² (20G) 3 directions 2 hours each
Shock	1000 m/s ² (100G) 6directions 3times
EMS	100 V/m 15 kHz ~ 1 GHz (ISO 11452)
ESD (Case-Each Terminal)	Max. ±25 kV (IEC 61000-4-2)
ESD (Each Terminal)	Max. ±12 kV (IEC 61000-4-2)
IP Grade	Without seal IP54 With seal IP67

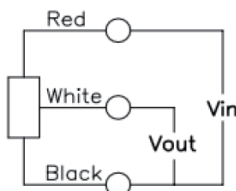
SCHEMATIC

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



Red,White,Blue,Black indicate lead colors.

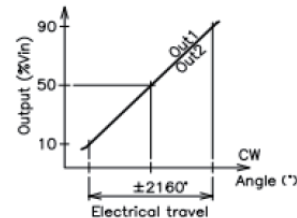
CP-22H-12S



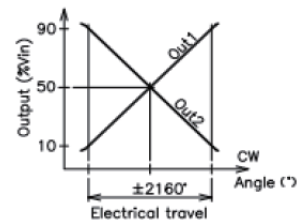
Red,White,Black indicate lead colors.

OUTPUT CHARACTERISTICS

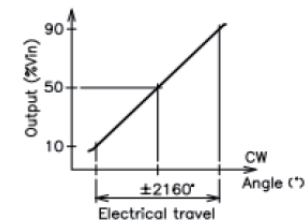
CP-22HP-12S



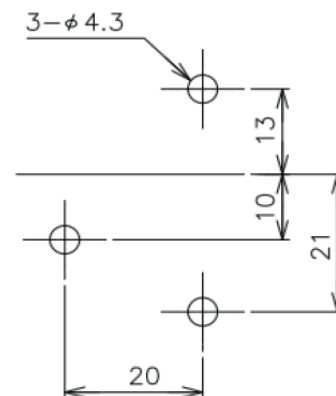
CP-22HC-12S



CP-22H-12S



MOUNTING

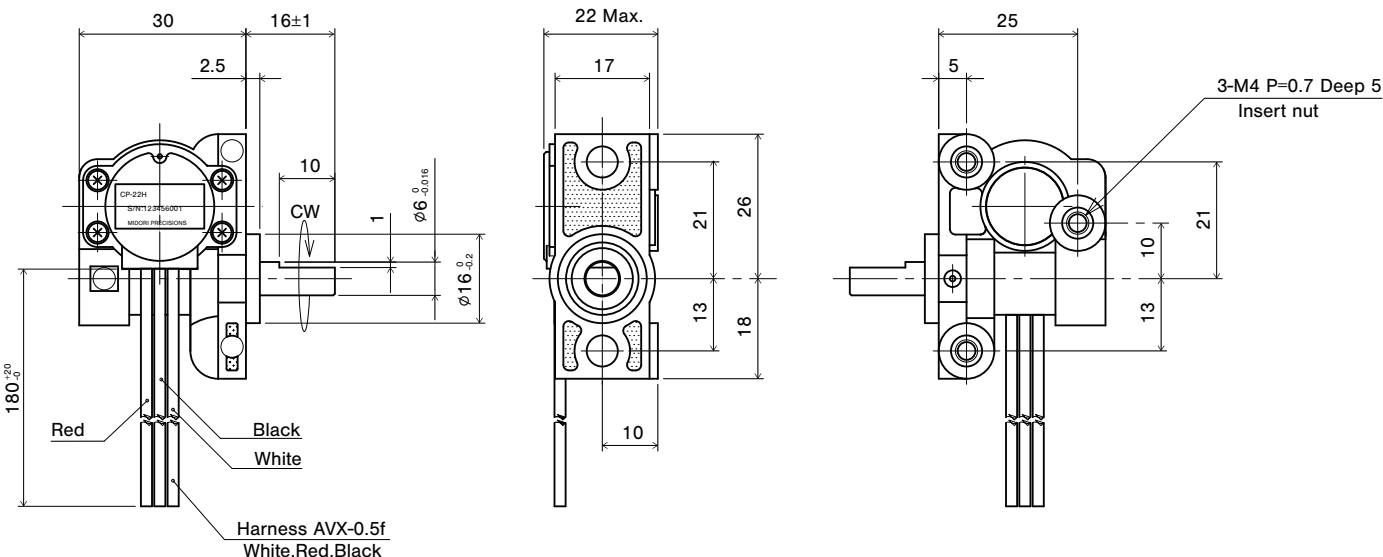


HANDLING INSTRUCTION

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

(Unit:mm)

● CP-22H-xxS xx=12,50



● CP-22HC-xxS / CP-22HP-xxS xx=12,50

