<RoHS Compliance>

CP-3HABS

■FEATURES

- Substitution model of QP-3HA
- Dust, Drip proof
- Low cost
- Dual Output, 6Pin Connector, Return Spring

■Model No. Designation

CP-3HABS-211-01

- Return Spring : 0=No,1=Yes
- Drip Proof : 0=No, 1=Yes
- Output : 1=single, 2=dual

■Electrical Specifications

Electrical Angle	±45 °
Output Range	10~90%Vin
Absolute Linearity (Independent. Linearity)	±4%FS (FS=90 °) (±3%FS)
Input Voltage	DC5V±0.5%
Load Resistance	10KΩ MIN.
Supply Current	20mA MAX.
Insulation Resistance	DC50V 100MΩ MIN.
Resolution	12 Bit
Hysteresis	0.3 ° MAX.
Temp.Characteristics -40~125℃ (ReferenceTemp.25℃)	@0 ° : ±2 ° @±45 ° : ±4 °

■Mechanical Specification

Mechanical Angle	120 ° ±5 °
Stopper Strength	1N・m MIN.
Torque	5～60mN・m
Weight	Approx. 30g
Shaft Radial Load	6N MIN.
Shaft Thrust Load	3N MIN.

■Enviromental Specification

Life Cycles	50M Cycle MIN.
Vibration	200m/S 5～500Hz(6 min) 3axis 2hours
Shock	1000m/S^2 6ms 3axis 3times
EMS	100V/m 200MHz～1GHz
Operating Temp.	-40～125℃
Storage Temp.	-40～125℃
ESD(Case~Each Terminal)	±16kV(IEC61000-4-2)
ESD(Each Terminal)	±8kV(IEC61000-4-2)
IP Level	IP65

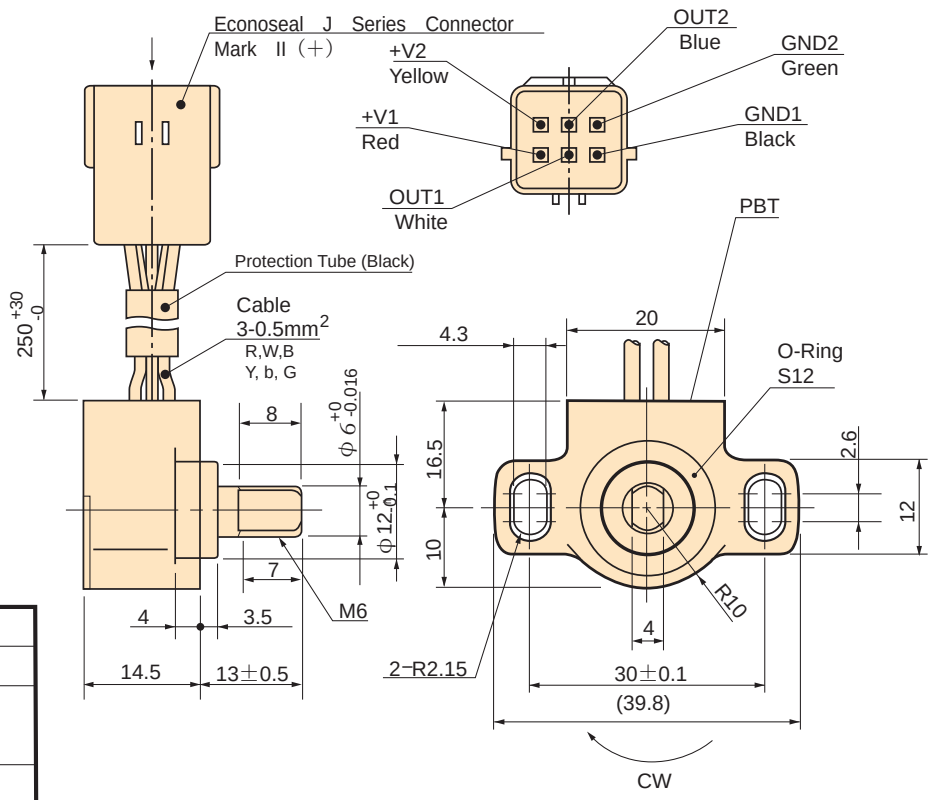
OPTIONS

- Single Output
- Dual Output (Parallel Outputs)
- Electrical Angle:±30 °
- Without Return Spring (D-cut Shaft)

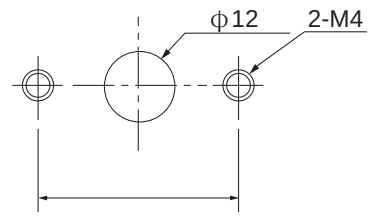
HANDLING INSTRUCTION

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

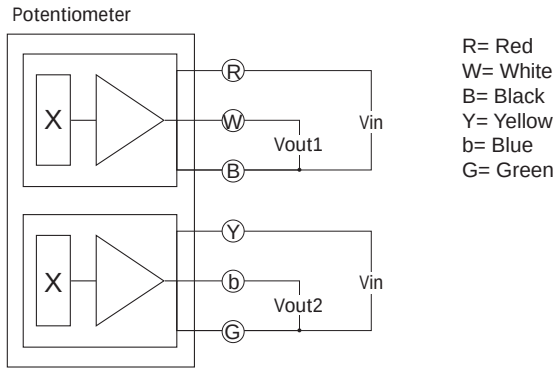
■DIMENSION (mm)



■MOUNTING

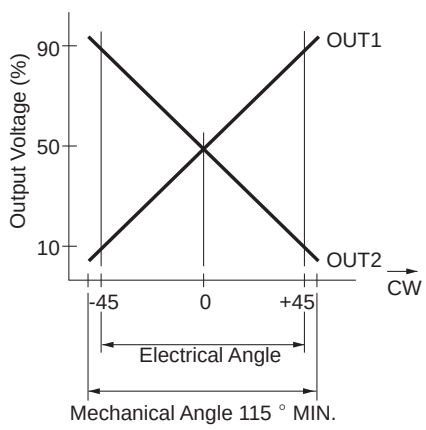


■SCHEMATIC



Each colors indicate harness colors

■OUTPUT CHARACTERISTICS



- Cross output for Self-diagnosis function:
  Output 1 + Output 2 =100±6.4%