

<RoHS Compliance>

CP-3HK-100

FEATURES

- Contactless rotary sensor, combination of a magnet, Hall Effect Sensing Element and custom IC
- Wide angle range: Electrical angle range 360° max.
- Excellent absolute linearity
- Long useful life
- Superb temperature characteristic

Electrical Specifications

Electrical Angle	360°
Output Range	5~95%Vin
Absolute Linearity	±0.4%FS(Ind.Linearity:±0.2%FS)
Input Voltage	DC 5±0.5V
Load Resistance	1MΩ MIN.
Supply Current	30mA MAX.
Resolution	0.1° MAX. (400rpm MAX.)
Hysteresis	±0.5° (±0.14%FS=360°)
Temp. Characteristics -40°C~100°C (Reference Temp. 25°C)	±0.3%FS (±1.08°) FS=360°

Mechanical Specifications

Mechanical Angle	360° Endless
Torque	2mN·m MAX.
Weight	Approx. 80g
Shaft radial load	14N MAX.
Shaft thrust load	4N MAX.

Environmental Specifications

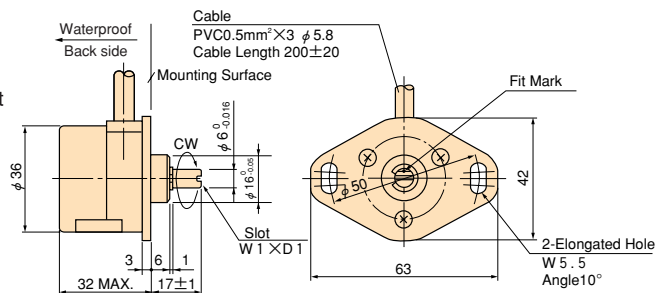
Life Cycles	50M Cycle MIN.
Vibration	100m/s ² 5~500Hz(6min) 3axis 2hours
Shock	1,000m/s ² 11ms 6axis 3times
Operating Temp.	-40~100°C
Storage Temp.	-40~100°C
ESD(Case~Each Terminal)	±8kV (IEC 61000-4-2)
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IP Level	IP54 Excluding Seal Between Shaft and Bushing



HANDLING INSTRUCTION

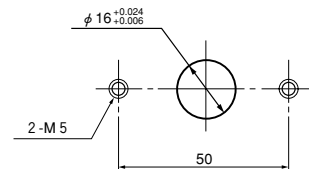
- In applying input power, voltage Vin must rise to 4.5V within 0.2 seconds, otherwise, output shall be disabled(Vout=0V)
- This product may be influenced from external magnetic field of apparatus which generates a magnetic field.
- Use this sensor in the place where is protected from ESD.

DIMENSION (mm)

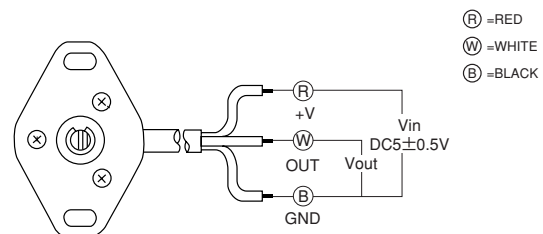


※When shaft is positioned as shown, output is at approx. 50%

MOUNTING

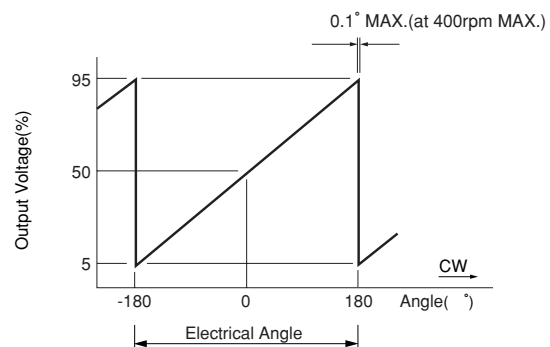


SCHEMATIC



Red, White and Black indicate harness colors

OUTPUT CHARACTERISTICS



We are here for you. Addresses and Contacts.

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