

<RoHS Compliance>

CP-45H-10S

FEATURES

- Contactless multiturn sensor with Gear Head Assy combination of CP-45H and an anti-backlash herical gear
- Excellent absolute linearity
- Repeatability: $\pm 0.2\%$ max. (Incl. backlash)
- Superb temperature characteristic

Electrical Specifications

Electrical Angle	3500°
Output Range	5~95%Vin
Absolute Linearity	$\pm 0.4\%$ FS(Ind.Linearity: $\pm 0.2\%$ FS)
Input Voltage	DC 5 ± 0.5 V
Load Resistance	1M Ω MIN.
Supply Current	30mA MAX.
Resolution	1° MAX. (4000rpm MAX.)
Temp. Characteristics -40°C~100°C (Reference Temp. 25°C)	$\pm 0.3\%$ FS (FS=3500°)

Mechanical Specifications

Mechanical Angle	3600° Endless
Gear Ratio	10 : 1
Torque	4mN·m MAX.
Repeatability	$\pm 7^\circ$ ($\pm 0.2\%$ FS=3500°) Including Backlash
Weight	Approx. 260g
Shaft radial load	16N MAX.
Shaft thrust load	5N MAX.

Environmental Specifications

EMS(IEC 61000-4-2)	10V/m, 80M~1GHz
Operating Temp.	-40~100°C
Storage Temp.	-40~100°C
ESD(Case~Each Terminal)	± 8 kV (IEC 61000-4-2)
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IP Level	IP40

OPTIONS

- Gear ratio

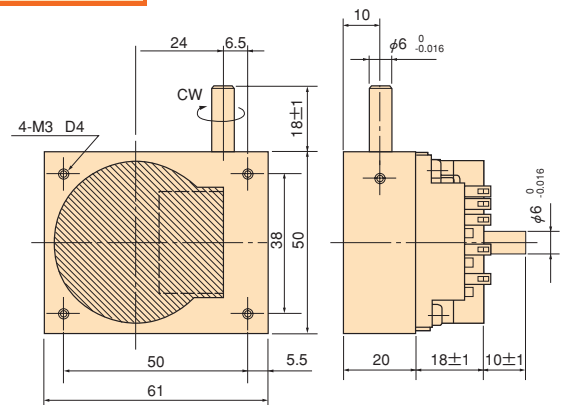
100 : 1	CP-45H-100S
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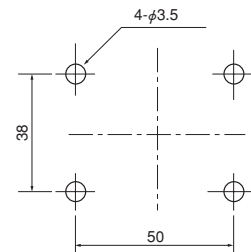
HANDLING INSTRUCTION

- 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.

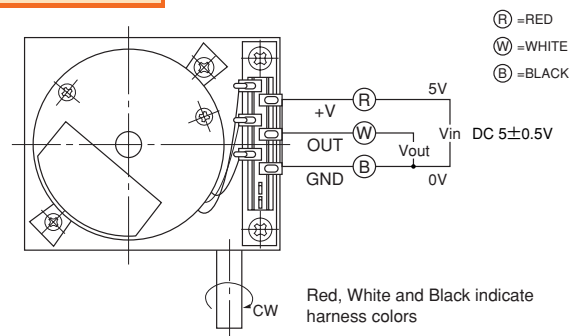
DIMENSION (mm)



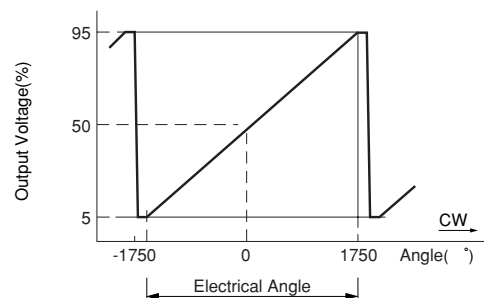
MOUNTING



SCHEMATIC



OUTPUT CHARACTERISTICS



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