

This product compliance with RoHS.

Specifications

Output characteristic : See Fig.2
 Effective electrical travel : 360°
 Absolute linearity : $\pm 0.4\%FS (= \pm 1.44^\circ)$: (FS= $\pm 180^\circ$)
 Input voltage : DC5V $\pm 0.5V$
 Load resistance (R_L) : 10k Ω Min.
 Supply current : 10mA Max. 1ch
 Insulation resistance : 100M Ω Min. DC50V (Room temp. and humidity)
 Resolution : 12bit (0~100%Vin) (Rotation speed:16rpmMAX.)
 Hysteresis : $\pm 0.2\%FS$ Max.
 Response time : 0.9ms MAX. (Electrical delay of output for mechanical input)
 2 Outputs difference : Out1-Out2 = $\pm 1.5\%FS$
 Temp. Characteristic : $\pm 0.3\%FS (\pm 1.08^\circ)$ (Reference temp.+25°C)
 -40~+100°C
 Total mechanical travel : 360°Continuous
 Torque : 30 mN·m Max.
 Mass : Approx. 100g
 Radial load tolerance : 6N
 Axial load tolerance : 2N
 Harness strength : Harness tensile 50N, 1minute all wires.
 Dimension : See Fig.1
 Schematic : See Fig.3

Operatina temperature range : -40~+100°C (No condensation)
 Storage temperature range : -40~+100°C (No condensation)
 IP Level : IP54
 Life : 10million cycles, 400~600rpm (Room temp. and no shaft load)
 Vibration : 200m/s², 5~500Hz, 10min (Half cycle), 3axis 4hours (Room temp.)
 Shock : 1000m/s², 6ms, 3axis 3times (Room temp.)
 EMS : 100V/m, 1MHz~1GHz (ISO11452-2)
 Output error: $\pm 1\%FS$
 ESD (Case to each terminal) : Contact discharge, $\pm 15kV$ (IEC61000-4-2)
 ESD (Between each terminal) : Contact discharge, $\pm 15kV$ (IEC61000-4-2)

Note

1. As this product is using "CMOS IC", handling of harness must be done under the ESD protection.
2. This product may have external magnetic influence of the apparatus which generates a magnetic field.
3. When the shaft is coupled, please do not apply heavy load to it.

SPECIFICATION DRAWING				CUSTOMER/SPEC. NO.	
MODEL: CP-45HSP					
APPROVED _____	TOLERANCE		DATE _____	DRAWING NO.	
CHECKED _____	≤ 10	± 0.25	SCALE _____	REV.	
DRAWN _____	10 < ≤ 100	± 0.5	DRAWING PRACTICE	A-45H-B43	
	100 <	± 1.0		0	
	ANGLE	$\pm 1.5'$			

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