



◆ Feature

HKT22 is a 2-channel low cost optical hollow shaft encoder which can be fixed easily on shafts of motors. HKT22 has 2 square-wave outputs which are 90-degree phase shifted for counting and direction information.

◆ Specifications

Electrical Specifications	
Output Wave	Square Wave
Current Consumption	≤50mA
Output Current	2~12mA
Response Frequency	0~30KHz
Output Phase Difference	90° ± 45°
Output Voltage	-0.5V~Vcc
Signal Level	V _H ≥85%V _{CC} , V _L ≤0.3V
Mechanical Specifications	
Rotor Inertia Of Code-wheel	4.0x10 ⁻⁸ Kgm ²
Shock Resistance	980m/s ² , 6ms, 2 times each on XYZ
Vibration Proof	50m/s ² , 10~200Hz, 2 hours each on XYZ
Working Life	MTBF≥50000h (+25℃, 2000rpm)
Weight	10g (with 0.5m cable)
Environmental Specifications	
Working Humidity	30~85% (no condensation)
Storage Temperature	-40℃~85℃
Working Temperature	-10℃~85℃

◆ Terminal Assignment

Flat Cable (from the colored end)	1	2	3	4	5
Voltage Output	0V	N.C	Ch B	+5V	Ch A

◆ Ordering Information

	<u>HKT22</u>	<u>XX</u>	—	<u>702</u>	<u>C1</u>	—	<u>XXX</u>	<u>B</u>	—	<u>5</u>	<u>E</u>	
Series												Output Circuit
HKT22 Series											E Voltage output	
Bore Size												Supply Voltage
φ 2mm	02										5 5V DC	
φ 3mm	03											
φ 4mm	04											
Glass code-wheel 702											Outputs	
											B 2-Channel outputs	
Connector												Resolution Number
C1-Flat Cable Connector											100, 120, 200, 256, 300, 360, 400, 500	

◆ Dimension Diagram

