



◆ 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	$\leq 50\text{mA}$
Output Current	$2\sim 12\text{mA}$
Response Frequency	$0\sim 30\text{KHz}$
Output Phase Difference	$90^\circ \pm 45^\circ$
Output Voltage	$-0.5\text{V}\sim\text{Vcc}$
Signal Level	$V_H \geq 85\% \text{Vcc}, V_L \leq 0.3\text{V}$

Mechanical Specifications

Rotor Inertia Of Code-wheel	$4.0 \times 10^{-8} \text{Kgm}^2$
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	$\text{MTBF} \geq 50000\text{h}$ (+25°C, 2000rpm)
Weight	10g (with 0.5m cable)

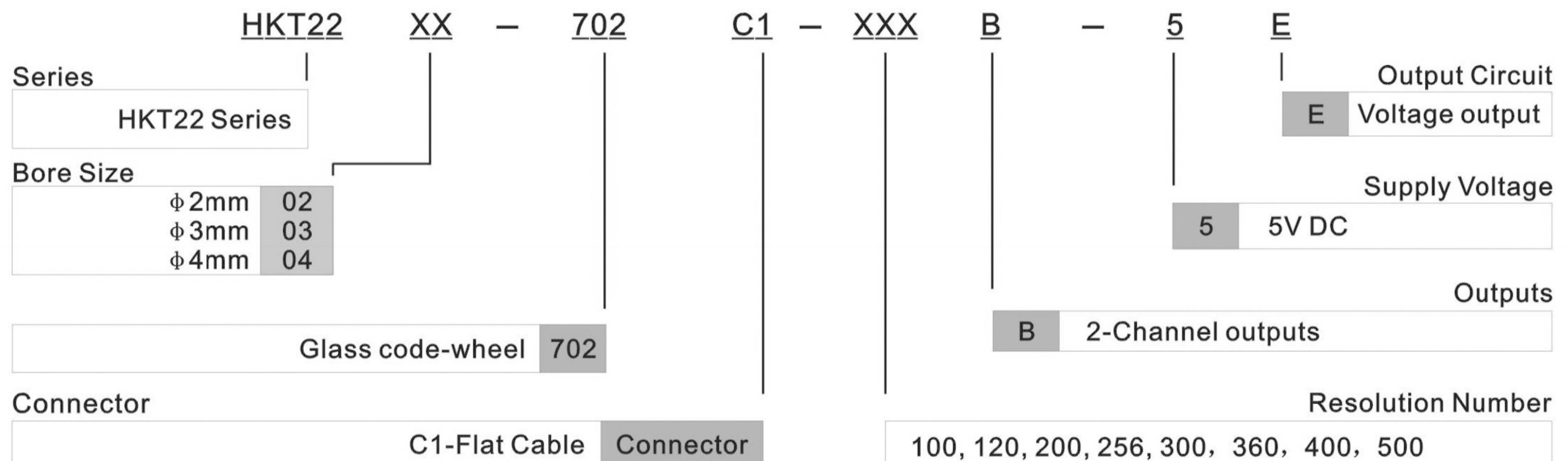
Environmental Specifications

Working Humidity	30~85% (no condensation)
Storage Temperature	-40°C~85°C
Working Temperature	-10°C~85°C

◆ 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



◆ Dimension Diagram

