

◆ **Feature**

HKT30-301 is a 2 or 3-channel low cost optical hollow shaft encoder which can be fixed easily on shafts of motors. HKT30-301 has 2 or 3 square-wave outputs which are 90-degree phase shifted for counting and direction information and one optional index channel.

◆ **Specifications**

Electrical Specifications

Output Wave	Square Wave
Current Consumption	≤60mA
Output Current	0~5mA
Response Frequency	0~100KHz
Output Phase Difference	90° ± 45°
Signal Level	V _H ≥ 85% V _{CC} , V _L ≤ 0.3V

Mechanical Specifications

Rotor Inertia Of Code-wheel	6.0x10 ⁻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°C, 2000rpm)
Weight	10g

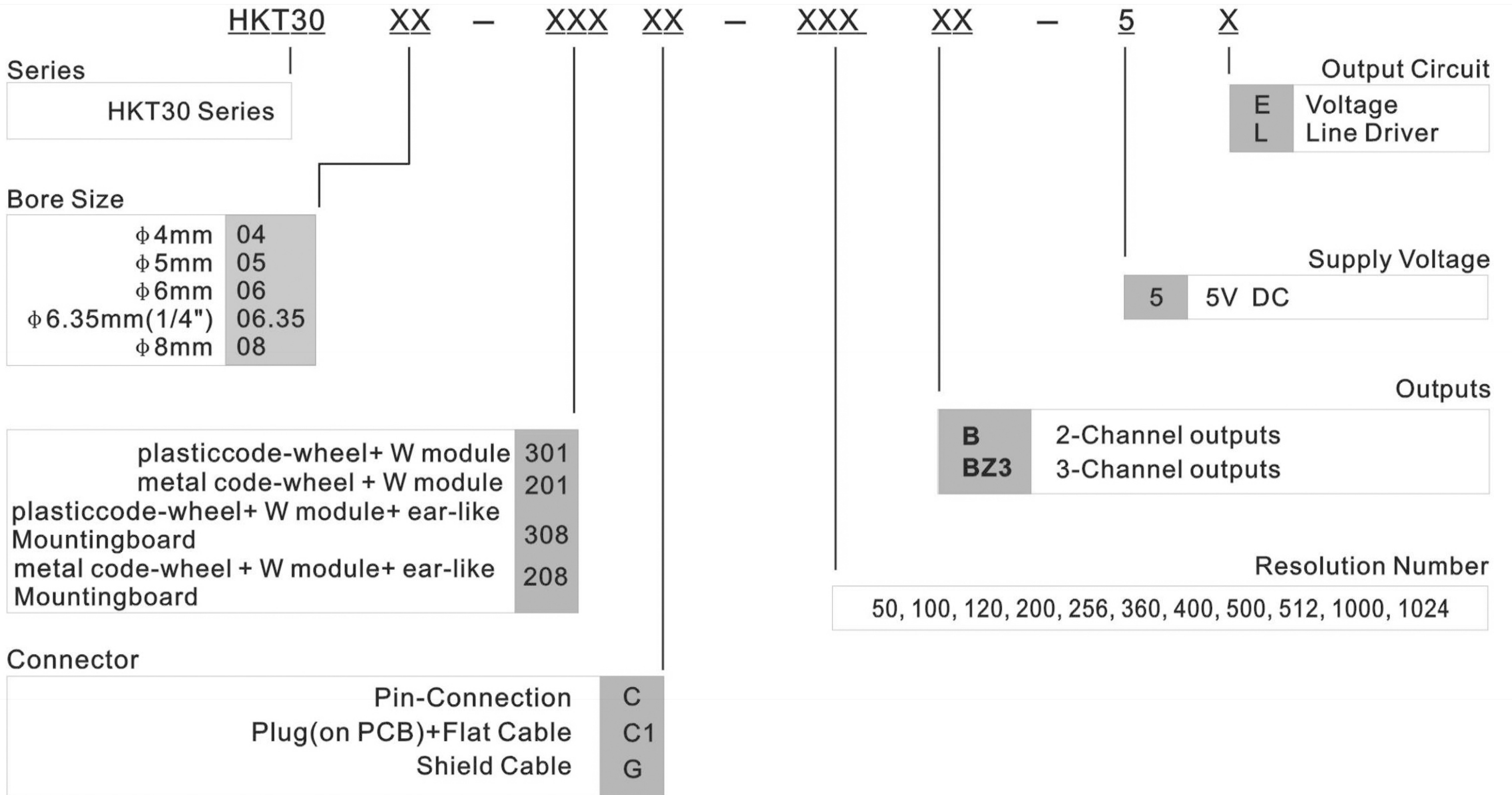
Environmental Specifications

Working Humidity	30~85% (no condensation)
Working Temperature	-25°C~85°C
Storage Temperature	-40°C~85°C
Weld Temperature	≤260°C

◆ **Connection Table**

Voltage Output	0V	Z	A	Vcc	B		
Flat Cable (from the colored end)	1	2	3	4	5		
Shield Cable (core color)	Black	Yellow	Green	Red	White		
Line Driver Output	0V	Vcc	A	A/	B/	B	Z
Flat Cable (from the colored end)	1	2	3	4	5	6	7
Shield Cable (core color)	Black	Red	Green	Brown	Grey	White	Yellow
							Orange

◆ Ordering Information



◆ Dimension Diagram

