

◆ **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 <sub>H</sub> ≥85%V <sub>CC</sub> , V <sub>L</sub> ≤0.3V

**Mechanical Specifications**

Rotor Inertia Of Code-wheel	6.0x10 <sup>-8</sup> Kgm <sup>2</sup>
Shock Resistance	980m/s <sup>2</sup> , 6ms, 2 times each on XYZ
Vibration Proof	50m/s <sup>2</sup> , 10~200Hz, 2 hours each on XYZ
Working Life	MTBF≥50000h (+25°C, 2000rpm)
Weight	10g

**Environmental Specifications**

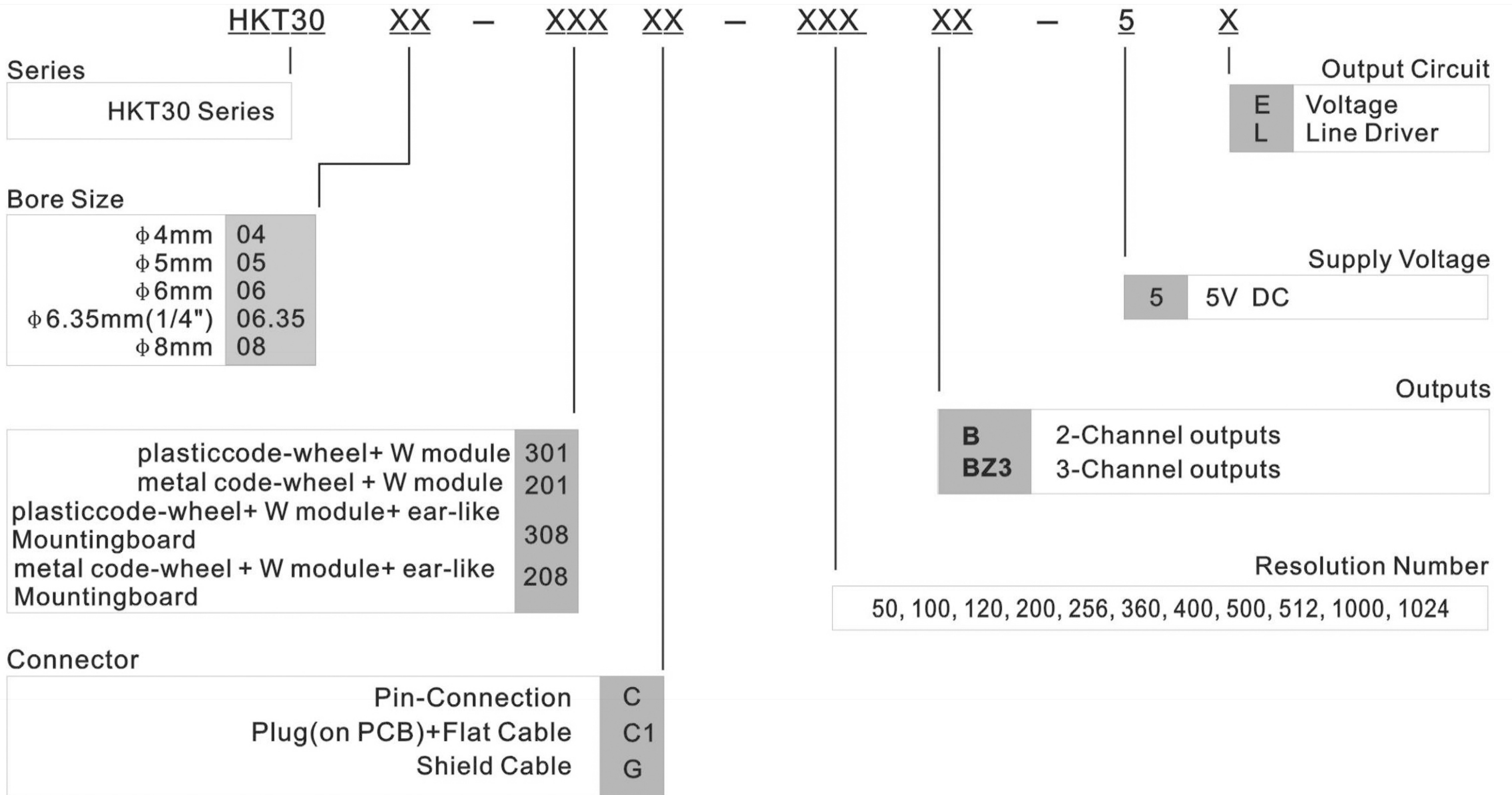
Working Humidity	30~85% (no condensation)
Working Temperature	-25°C~85°C
Storage Temperature	-40°C~85°C
Weld Temperature	≤260°C

◆ **Connection Table**

<b>Voltage Output</b>	0V	Z	A	Vcc	B			
<b>Flat Cable</b> (from the colored end)	1	2	3	4	5			
<b>Shield Cable</b> (core color)	Black	Yellow	Green	Red	White			
<b>Line Driver Output</b>	0V	Vcc	A	A/	B/	B	Z	Z/
<b>Flat Cable</b> (from the colored end)	1	2	3	4	5	6	7	8
<b>Shield Cable</b> (core color)	Black	Red	Green	Brown	Grey	White	Yellow	Orange



◆ Ordering Information



◆ Dimension Diagram

