

◆ 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	$\leq 60\text{mA}$
Output Current	0~5mA
Response Frequency	0~100KHz
Output Phase Difference	$90^\circ \pm 45^\circ$
Signal Level	$V_H \geq 85\%V_{CC}, V_L \leq 0.3V$

Mechanical Specifications

Rotor Inertia Of Code-wheel	$6.0 \times 10^{-8} \text{Kg} \cdot \text{m}^2$
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 $\geq 50000\text{h}$ (+25°C, 2000rpm)
Weight	10g

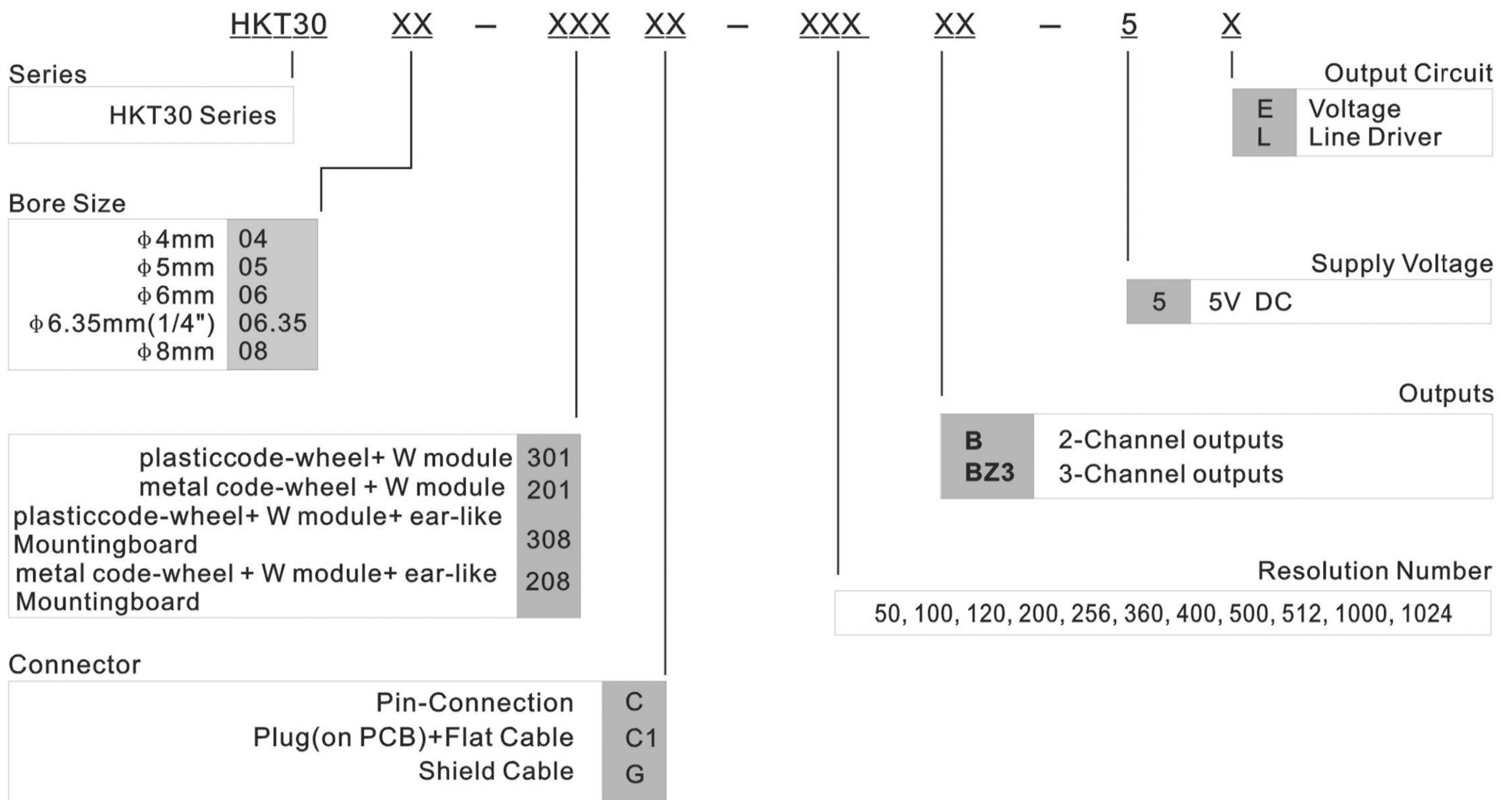
Environmental Specifications

Working Humidity	30~85% (no condensation)
Working Temperature	-25°C~85°C
Storage Temperature	-40°C~85°C
Weld Temperature	$\leq 260^\circ\text{C}$

◆ 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	Z/
Flat Cable (from the colored end)	1	2	3	4	5	6	7	8
Shield Cable (core color)	Black	Red	Green	Brown	Grey	White	Yellow	Orange

◆ Ordering Information



◆ Dimension Diagram

