

◆ 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

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|-------------------------|--|
| 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

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|-----------------------------|--|
| 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 |

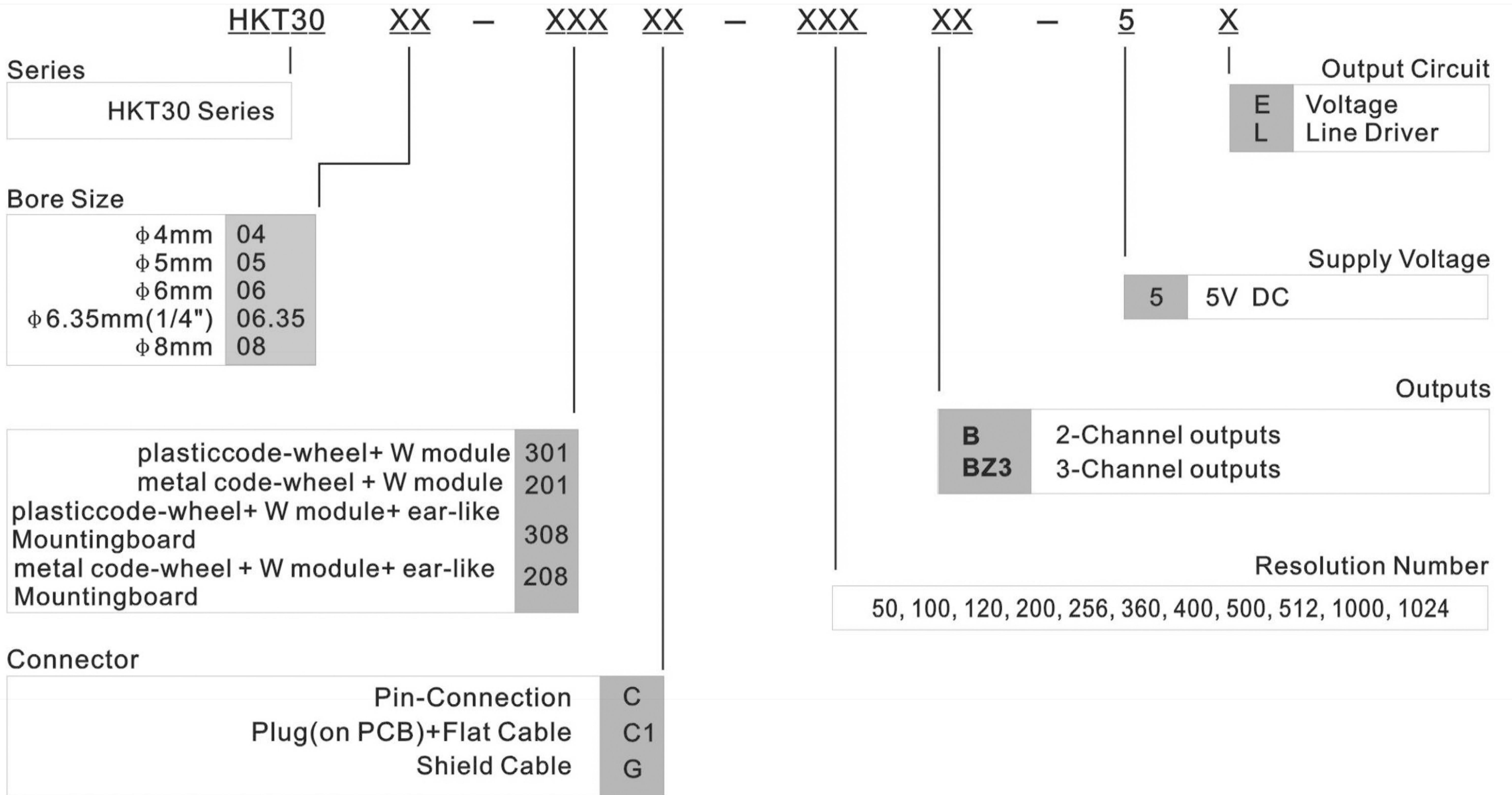
Environmental Specifications

| | |
|---------------------|--------------------------|
| 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 | 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

