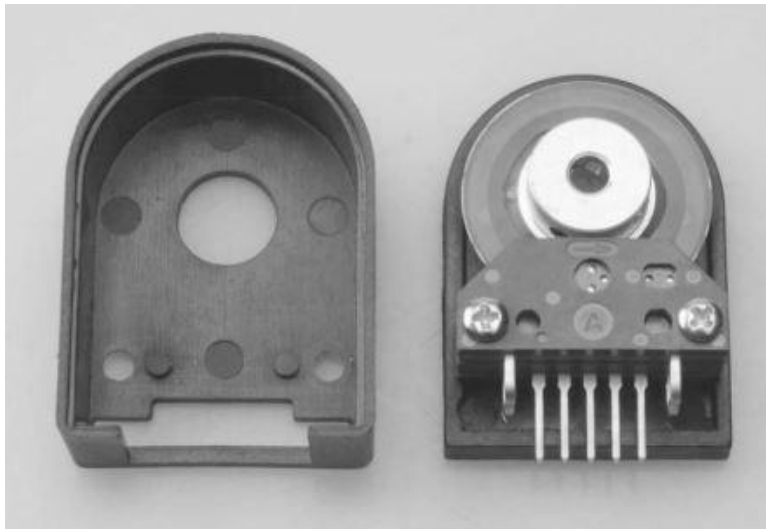


Optical Rotary Encoder

HKT30-32



HKT30-32 is a 2 or 3-channel low cost optical hollow shaft encoder which can be fixed easily on the shafts of motors. HKT30-32 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

Outout Wave	Square Wave
Current Consumption	≤60mA
Output Current	0~5mA
Response Frequency	0~100KHz
Output Phase Difference	90° ± 45°
Signal Level	$V_H \geq 85\%V_{cc}$, $V_L \leq 0.3V$

Mechanical Specifications

Rotor Inertial of Code-wheel	$6.0 \times 10^{-8} \text{Kgm}^2$
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	MTBF ≥ 50000h(+25°C,2000rpm)
Weight	10g

Environmental Specifications

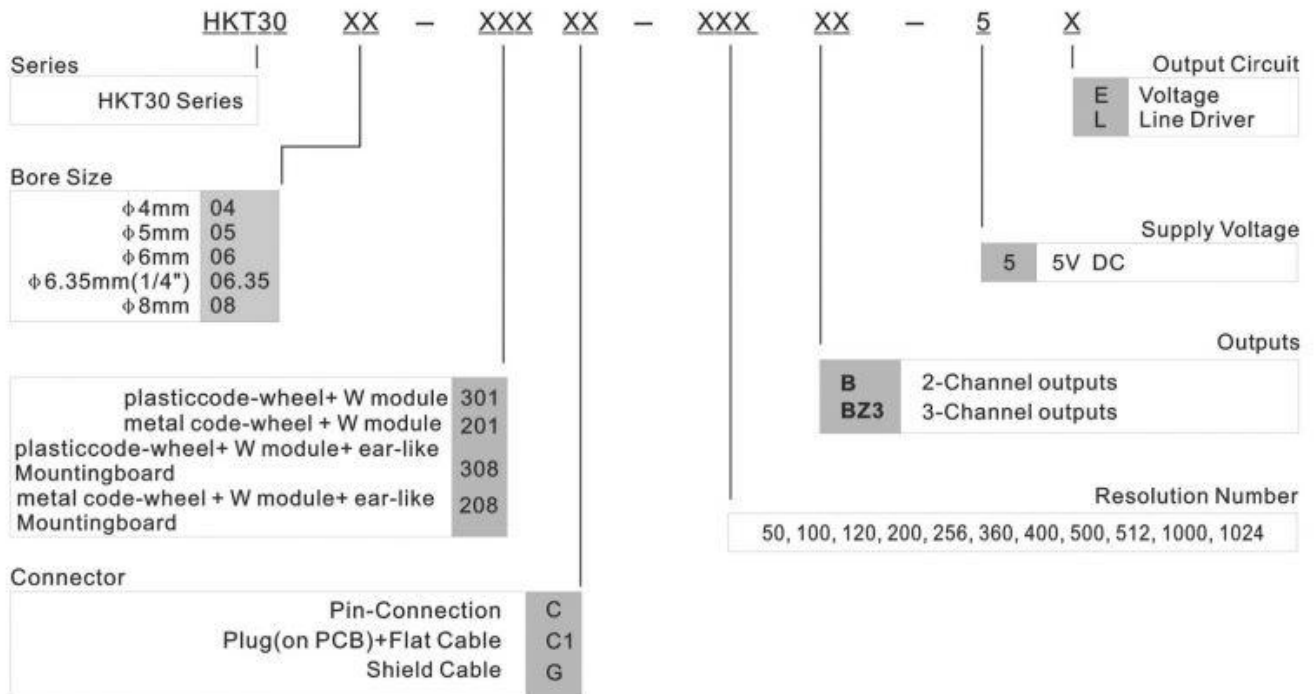
Working Humidity	30~85% (no condensation)
Storage Temperature	-40°C~85°C
Working Temperature	-25°C~85°C
Weld Temperature	≤260°C

◆ Terminal Assignment

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

