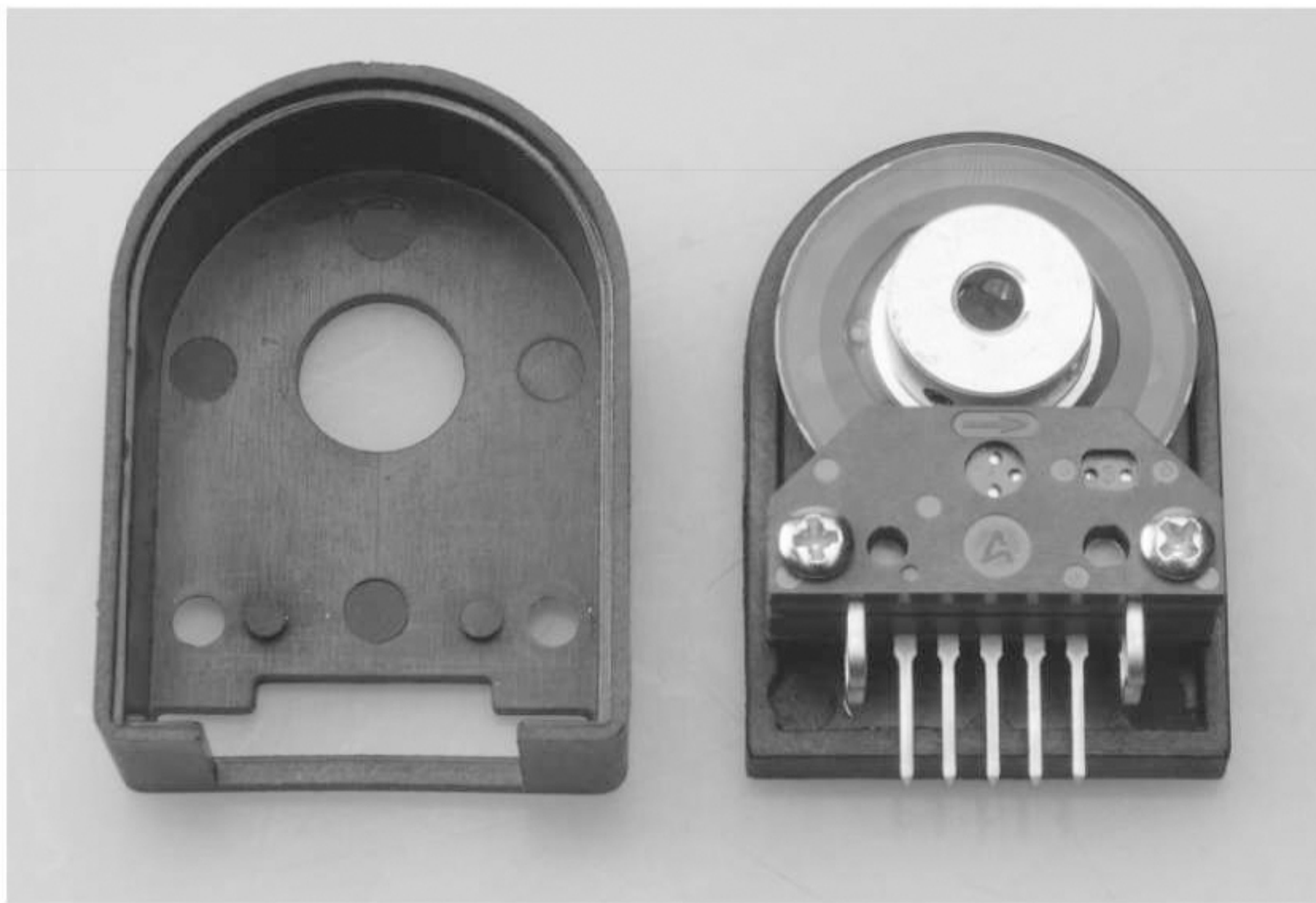




◆ Feature

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℃, 2000rpm)
Weight	10g
Environmental Specifications	
Working Humidity	30~85% (no condensation)
Working Temperature	-25℃~85℃
Storage Temperature	-40℃~85℃
Weld Temperature	≤260℃

◆ 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

HKT30XX-XXXXX-5X									
Series	HKT30 Series								Output Circuit
								E L	Voltage Line Driver
Bore Size									Supply Voltage
								5	5V DC
						</			