

UZ4809 Series



Features

- Internally equipped with an ASIC phase array chip, ultra-parallel optical components, and direct reading of code disc signals.
- High reliability, long service life, and strong anti-interference capability; tapered shaft design ensures a secure connection without slipping.
- Equipped with six-channel signal outputs (A, B, Z and U, V, W), compatible with standard line drivers (26LS31) RS422, and capable of providing 12 output signals. Compatible with TTL circuit output interfaces, with optional space-saving wiring method (must be specified when ordering).

Cable Definition

Signal	5V	A	B	Z	U	V	W	Shell
Wire Color	Red	Green	White	Yellow	Brown	Gray	Orange	Shield
Signal	0V	A/	B/	Z/	U/	V/	W/	
Wire Color	Black	Green/Black	White/Black	Yellow/Black	Brown/Black	Gray/Black	Orange/Black	

Technical Parameters

Supply Voltage (VCC)	DC 5V±0.25V	Maximum Mechanical Rotation Speed	6000r/min
Output Voltage	High Level 3.4V, Low Level 0.4V	Vibration Resistance	49m/s², 10~200Hz, 2 hours in each XYZ direction
Current Consumption	≤160mA	Shock Resistance	980m/s², 6ms, 3 times in each XYZ direction
Response Frequency	0~500KHz (or as per customer requirements)	Protection	Waterproof, Oil-proof, Dustproof (IP54)
Output Waveform	Square Wave	Operating Life	MTBF 50000h(+25°C,2000rpm)
Duty Cycle	0.5T±0.1T	Operating Temperature	-30°C ~ +85°C
Starting Torque	2*10 ⁻³ N.m (+25°C)	Storage Temperature	-40°C ~ +95°C
Moment of Inertia	1*10 ⁻⁵ kg.m²	Operating Humidity	30 ~ 85%(No Condensation)
Maximum Shaft Load	Radial: 20N, Axial: 10N	Weight	Approximately 0.3kg (excluding cable)

Model Definition

UZ4809 - ☐ Z - ☐ - ☐ - ☐ ☐

Product Model Number of Pulses Number of Phases Output Method Power Supply Voltage Cable Outlet Method Length

Number of Pulses:
50, 100, 120, 125, 150,
180, 200, 250, 256, 300,
360, 400, 500, 512,
600, 720, 800, 900, 1000
, 1024, 1200, 1800, 2000
, 2048, 2400, 2500, 3000
, 3600 p/r (or as per
customer requirements).

Output Method:
C = Open-collector NPN
CP = Open-collector PNP
T = Voltage Output
F = Complementary Output
L = 26LS31 Differential Output
K = 7272 Wide Voltage Output

Power Supply Voltage:
5 = 5V
24 = 5-24V
H = 5-24V Input, 5V
Output
L = 5V Input, 5-24V
Output

Cable Outlet Method:
D = Metal Side Outlet
G = Rubber Side Outlet
H = Socket Side Outlet
F = Rubber Rear Outlet

Cable Length:
0.17 = 0.17 meters
1 = 1 meter
2 = 2 meters

Installation Dimensions

