

UK3508 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).
- Adaptable to requirements. Shaft holes of 6 and 6.35 are also available for selection.

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 2.5V, Low Level 0.4V | Vibration Resistance | 49m/s ² , 10~200Hz, 2 hours in each XYZ direction |
| Current Consumption | 100mA | Shock Resistance | 980m/s ² , 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 | -20°C ~ +85°C |
| Starting Torque | 3*10 ⁻³ N.m (+25°C) | Storage Temperature | -20°C ~ +85°C |
| Moment of Inertia | 1*10 ⁻⁵ kg.m ² | Operating Humidity | 30 ~ 85%(No Condensation) |
| Maximum Shaft Load | Radial: 10N, Axial: 10N | Weight | Approximately 0.2kg (excluding cable) |

Model Definition

UK3508 - ☐ 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

