

ZKD-41

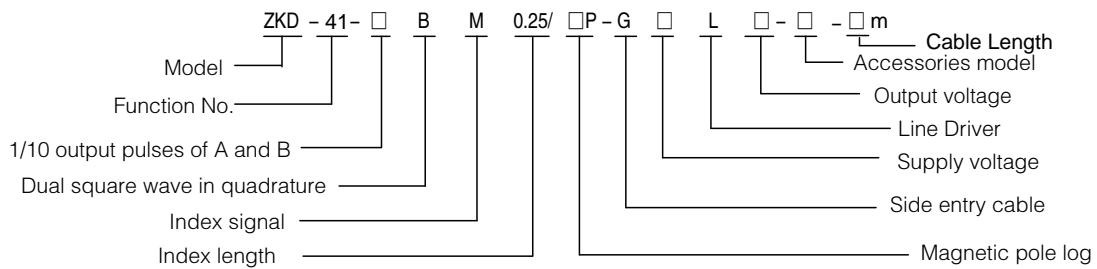
SERIES



Incremental Hollow-shaft Encoders

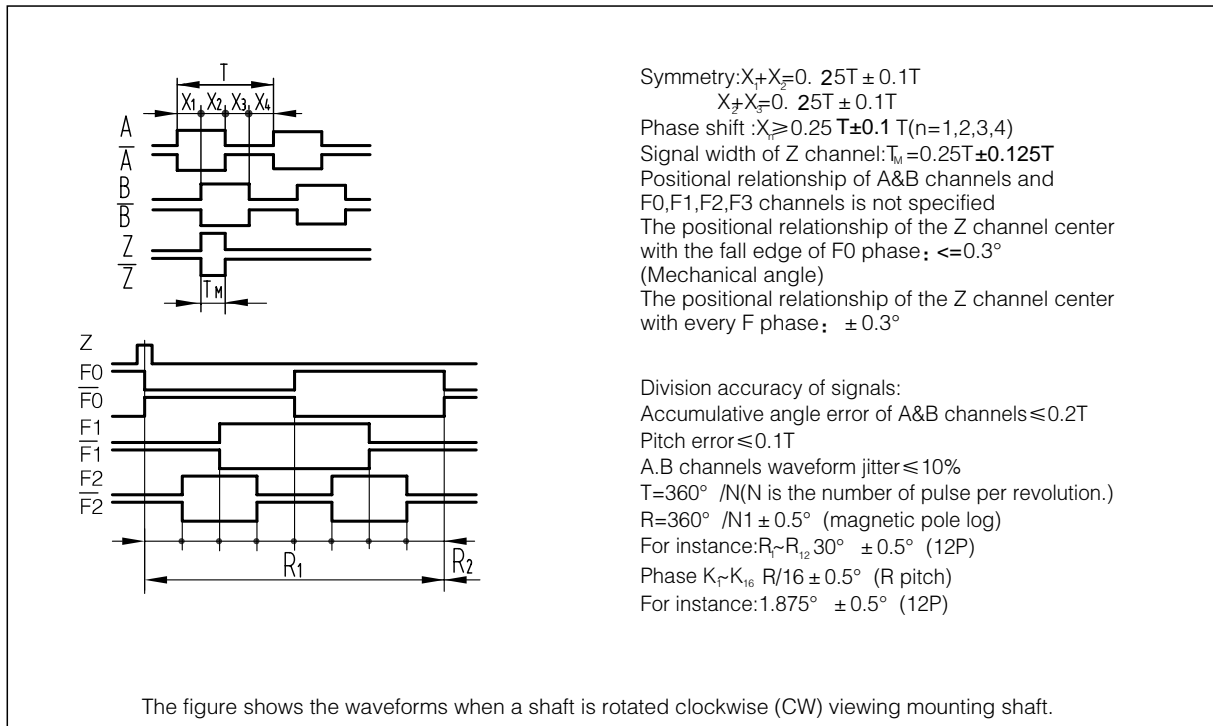
- Ultra-compact hollow shaft encoder
- Suitable for elevator or no engine room

Explanation of model



Output pulses per revolution: 8192P/R
FO,F1,F2. Magnetic pole log: 12P

Output waveforms and division accuracy



Electrical specifications

Output mode	Supply voltage DC(V)	Current requirement (mA)	Output voltage(V)		Rise time (ns)	Fall time (ns)	Frequency response (kHz)
			V _H	V _L			
12L05	12 ± 1.2	≤ 180	≥ 2.5	≤ 0.5	≤ 200	≤ 200	0~100

Insulates resistance 10M (put DC 500V between 0V and body), Insulates Withstanding Voltage AC500V, 1min(0V and body),

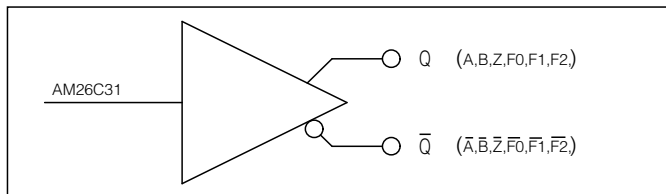
Mechanical specifications

Maximal Slew speed (r/min)	Starting torque (N.m)(25°C)	Max. allowable load		Moment of inertia (kgm ²)	Allowable input angle acceleration (rad/s ²)
		Radial (N)	Axial (N)		
1000	6×10 ⁻²	49	29.4	6 × 10 ⁻²	10000

Environment specifications

Operating temperature (°C)	Storage temperature (°C)	Humidity	Shock resistance (m/S ²)	Vibration resistance (m/S ²)	Construction	Weight (kg)
-20~+70	-20~+80	RH90% or less	70(2 hours each in x, y, z directions Amplitude0.5mml)	490(3times each in x, y, z directions, duration 15ms)	IP40	<0.2(No cable)

Output circuit



Connection specifications

Signal	Vcc	OV	A	Ā	B	B̄	Z	Z̄	
Color	Red	Red/White	Black	Black/White	Green	Green/White	Yellow	Yellow/White	
Pin	B02	A02	B10	A10	B09	A09	B08	A08	
Signal	F0	F̄0	F1	F̄1	F2	F̄2	F3	F̄3	
Color	Brown	Brown/White	Cyan	Cyan /White	Grey	Grey/White	Orange	Orange/White	Shield
Pin	B04	A04	B07	A07	B05	A05	B06	A06	

External view

