

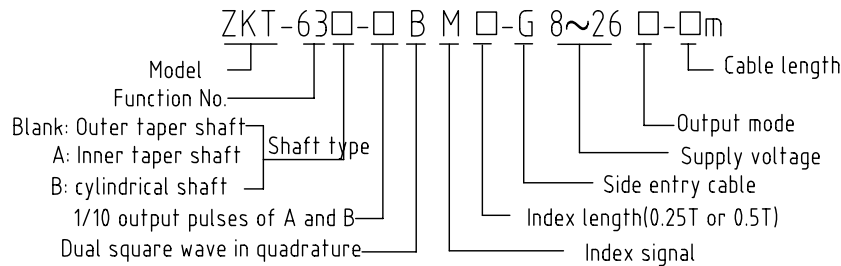
ZKT-63 SERIES



Incremental Hollow-shaft Encoders

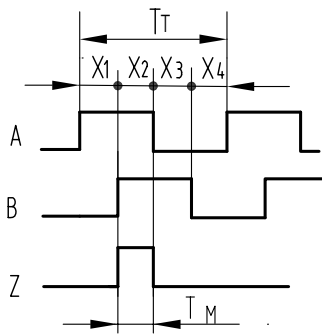
- Hollow shaft encoder
- Output pulses per revolution 8192
- Suitable for permanent magnet synchronous motor of elevator door

Explanation of model



Output pulses per revolution: 1024P/r, 2048P/r

Output waveforms and division accuracy



This figure shows the waveforms when a shaft is rotated clockwise (CW) viewing mounting shaft.

Symmetry: $X_1+X_2=0.5T \pm 0.1T$
 $X_3+X_4=0.5T \pm 0.1T$
 Phase shift: $X_2 \geq 0.25T$
 Accumulative angle error $\leq 0.2T$
 Pitch error $\leq 0.05T$
 Signal width of Z channel: $T_m=0.25T \pm 0.125T$
 $T_m=0.5T \pm 0.25T$

$T=360^\circ / N$ (N is the number of pulse per revolution.)

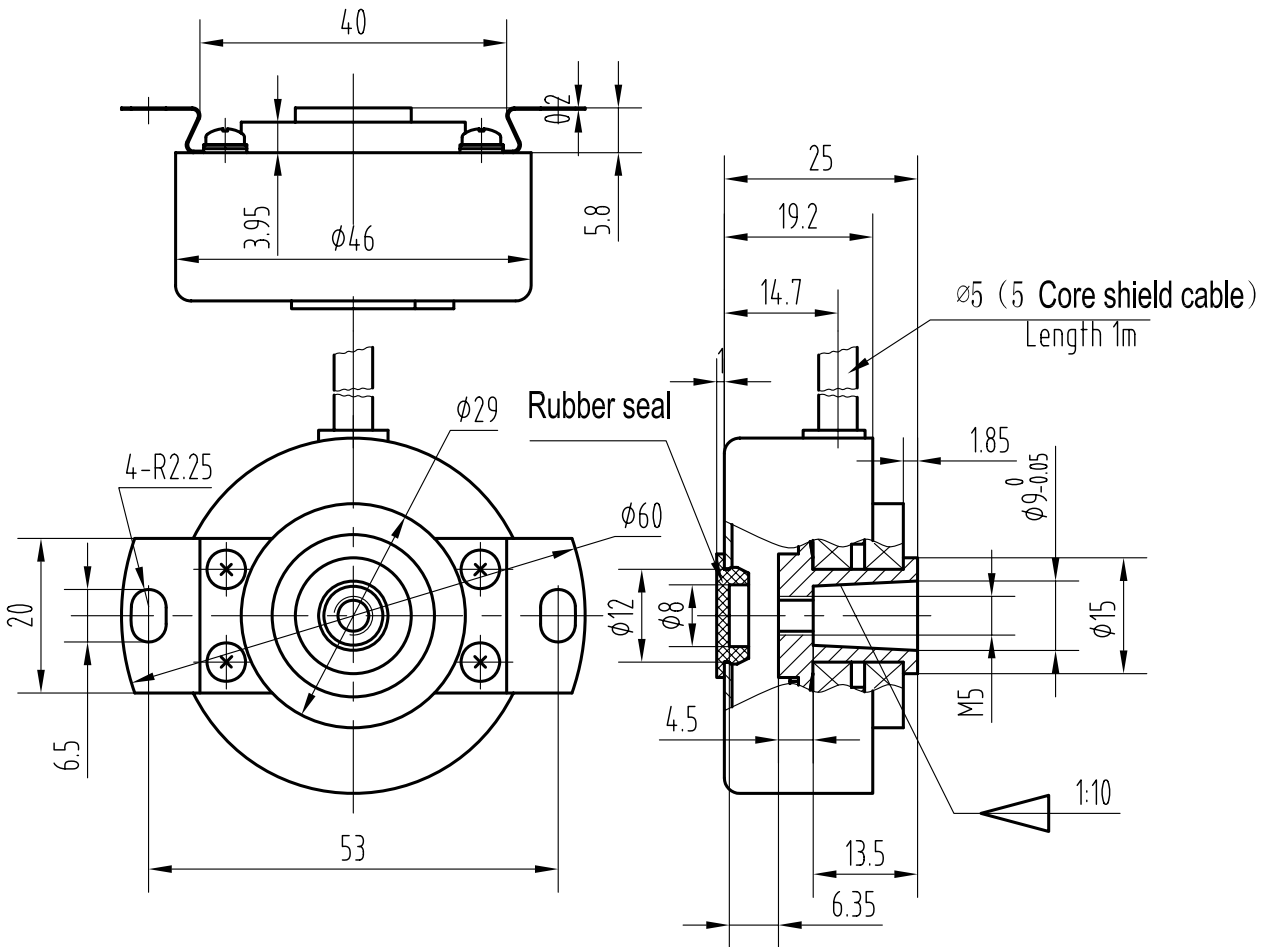
Electrical specifications

Function No.	Output mode	Supply voltage DC(V)	Current requirement (mA)	Output voltage(V)		Sink current (mA)	Min. load resistance (Ω)	Rise time (ns)	Fall time (ns)	Frequency response (kHz)
				V_H	V_L					
C	Open collector	8~26	≤ 100	/	/	≤ 20	300	/	/	0~200
E	Voltage	8~26	≤ 100	$\geq V_{CC}-2.5$	≤ 0.5	/	/	< 1000	< 1000	0~200

Mechanical specifications

Maximal Slew speed (r/min)	Starting torque (N.m)(25°C)	Moment of inertia (kgm ²)	Max. allowable load		Allowable input angle acceleration (rad/s ²)	Weight (kg)
			Radial (N)	Axial (N)		
6000	$< 5 \times 10^{-3}$	6.5×10^{-6}	10	10	10000	< 0.1

■ ZKT-63A



■ ZKT-63B

