

RIA-80 Series

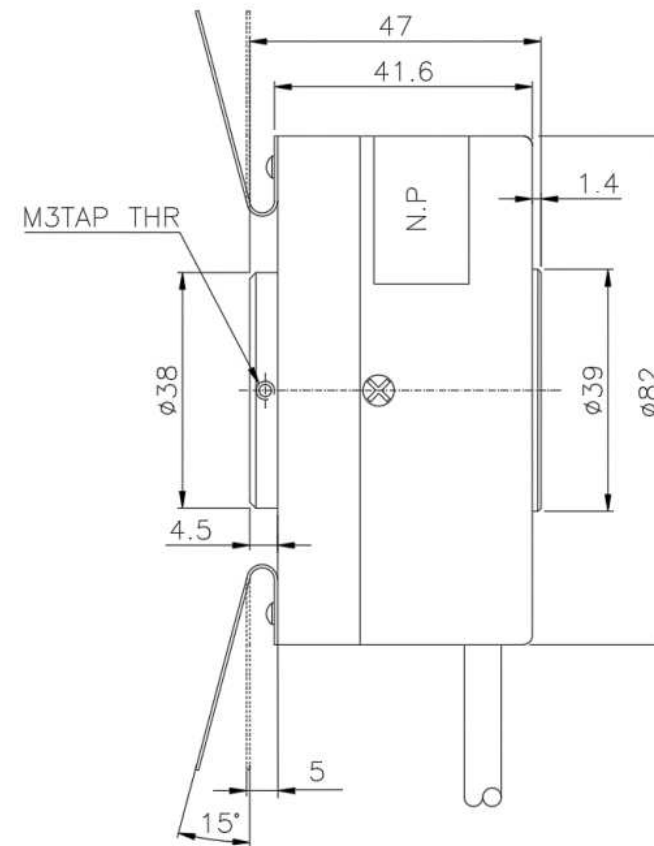
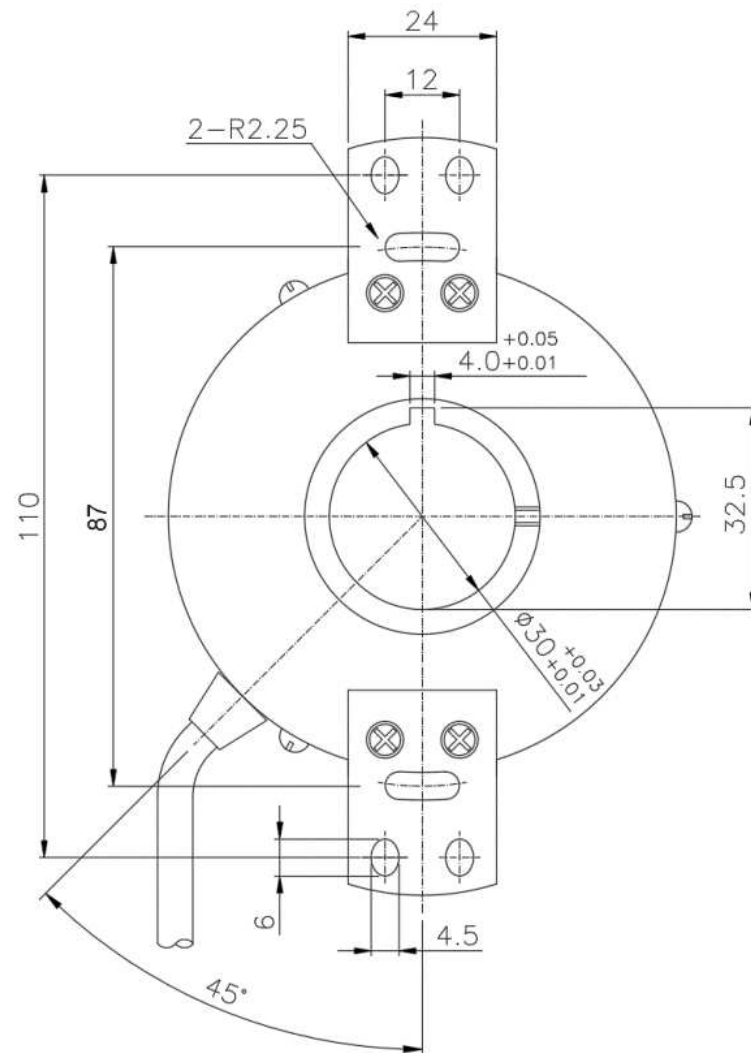
1. OUT Dia ø82mm Inner Dia ø30mm Hollow type INCREMENTAL



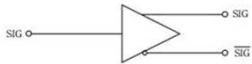
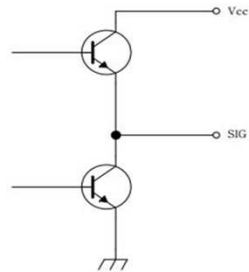
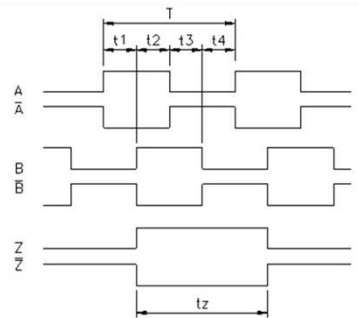
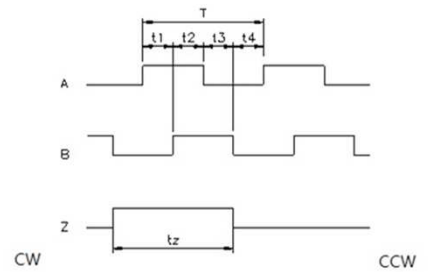
Rigid type
High reliability
Key bolting type
Elevator (TM)
Parking system

R	I	A	80	1024	B	C	
엔코더	방식	축형태	외경	분해능	출력신호	출력회로	주문제품
ROTARY	INCREMENTAL	HOLLOW SHAFT TYPE	82	1024	B : A, B	C : Complimentary	

2. Out Diameter



3. Output Phase

Output Circuit	 A circuit diagram showing a single output line labeled 'SIG' connected to a driver circuit represented by a triangle symbol. Two output lines, both labeled 'SIG', emerge from the right side of the triangle. Line Drive	 A circuit diagram of a totempole output stage. It consists of two transistors connected in series between Vcc and ground. The output signal 'SIG' is taken from the node between the two transistors. Totempole
Output Signal	 A timing diagram showing three signals: A, $\bar{A}$, and Z. Signal A is a square wave. Signal $\bar{A}$ is its complement. Signal Z is a pulse that occurs during the transition of A. The period of the signals is labeled T. The pulse width of Z is labeled tz. The timing of the pulse is defined by four intervals: t1 (A rising), t2 (A falling), t3 (Z rising), and t4 (Z falling).	 A timing diagram showing three signals: A, B, and Z. Signal A is a square wave. Signal B is its complement. Signal Z is a pulse that occurs during the transition of A. The period of the signals is labeled T. The pulse width of Z is labeled tz. The timing of the pulse is defined by four intervals: t1 (A rising), t2 (A falling), t3 (Z rising), and t4 (Z falling). The signal Z is labeled with 'CW' and 'CCW' at its ends.

4. Electrical Spec

Resolution	1024	
Supply Voltage	Complimentary	$V_L = 0.5V \downarrow$ $V_H = 2.7V \uparrow (DC+5V), 9V(DC+12V), 20V(DC+24V)$
Current Consumption	150 mA Max.	
Max. Response Frequency	200 kHz Max.	
Rising / Falling Time	Complimentary	$3\mu s$

5. Mechanical Spec

RPM.Max	5,000 rpm	
Starting torque	200gf.cm	
Moment of inertia	200gf.cm	
Allowable shaft load	Radial	2.2kg Max.
	Axial	1.0kg Max.
Vibration resistance	10~55Hz / 1.5mm	
Shock resistance	50G / 11msec	
Operation temp	-10°C~ +70°C	
Storage temp	-20°C~ +85°C	
Protection	IP50	
Weight	? g (excluding box)	

6. Connection Table

C	Complimentary
RED	Vcc
BLACK	GND
GREEN	A
WHITE	B
YELLOW	Z
SHIELD	F/G