

ISN40 series
Solid-Shaft Incremental Rotary Encoder

◆ Application

- Measure the speed and the rotational speed, textile machines, embroidery machines, robot, X-Y labor, printing machine and etc.

◆ Features

- High reliability, long life, strong anti-interference ability
- 2 quadrature output channel (A&B) + index signal

◆ Ordering Information

ISN40	06	-	001G	-	1000	ABZ	1	-	5	L
ISN serial no. Φ40mm housing	Cable lead out : C= Plug connection at side G= Cable lead out at side H=Plug connection behind E= Cable lead out behind		Pulses P/R 100 200 250 360 400 500 1000 1024 2000 2048 2500		Output signal A=A phase B=A,Bphase BZ:A, B Zphase ABZ=ABZ,A-B-Z-phase		Supply Voltage 5: 5V DC 5-30:5~30 VDC		Output Form E:Voltage L: Line Driver 26LS31/TTL K:Line driver 7272 F: Push-Pull C: Open Collector NPN CP: Open collector PNP	
Shaft diameter 05=Φ06mm 06=Φ06mm 08=Φ8mm							Width of Z signal Blank=no Z phase 1: TZ=1T 2: TZ=1/2T 3: TZ=1/4T			

◆ Note:

1. Please contact sales representative to confirm the correctness and availability of the part number

◆ Technical Specifications

Electrical Specification				
Output circuit	Open collector	Voltage output	Push pull output	Line driver output
Power Vcc	5~30	5~30	5±0.25 5~30	5±0.25 5~30
Current	≤80mA	≤80mA	≤80mA	≤150mA
Load current	40mA	40mA	40mA	60mA
High-level output	Min Vcc*70%	Min Vcc-2.5V	Min Vcc-1.5V	Min 3.4V
Low-level output	Max 0.4V	Max 0.4V	Max 0.8V	Max 0.4V
Rise Time Tr	Max 1us	Max 1us	Max 1us	Max 200ns
Fall Time Tr	Max 1us	Max 1us	Max 1us	Max 200ns
Max Responding Frequency	100kHz	100kHz	100kHz	100kHz
Mechanical Specification				
Max speed(r/min)	Starting Torque	Max. Shaft Loading	Shocking	Vibration
6000	<0.04Nm	Radial:25N, Axial:15N	50G/11ms	10G 10-2000Hz
Rotor Inertia	Working Temperature	Storage Temperature	Protection Grade	Weight
4*10 ⁻⁸ Kg·m ²	-25~80℃	-30~85℃	IP51	200g

◆ Connection Table

Signal	A	B	Z	Ā	Ē	Ž	Vcc	GND
Color	Green	White	Yellow	Brown	Grey	Orange	Red	Black

◆ Dimensions(mm)
