

ISC70 series

Solid-Shaft Incremental Rotary Encoder



◆ Application

- Measure the distance and measure the speed, position at CNC tooling 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
- Square flange be used in numerical control machine

◆ Ordering Information

ISC70	08	-	001G	-	2000	ABZ	1	-	5	L
ISC serial no. 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 3600 4000 5400				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 06=Φ06mm 08=Φ8mm 10=Φ10mm					Output signal A=A phase B=A,Bphase BZ:A, B Zphase ABZ=ABZ,A-B-Z-phase				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
Max Responding Frequency	300kHz	300kHz	300kHz	300kHz
Mechanical Specification				
Max speed(r/min)	Starting Torque	Max. Shaft Loading	Shocking	Vibration
6000	<0.05Nm	Radial:80N, Axial:40N	50G/11ms	10G 10-2000Hz
Rotor Inertia	Working Temperature	Storage Temperature	Protection Grade	Weight
4*10 ⁻⁸ Kg·m ²	-30~85℃	-35~95℃	IP51	275g

◆ Connection Table

Signal	A	B	Z	Ā	Ē	Ž	Vcc	GND	Shielded
Color	Green	White	Yellow	Brown	Gray	Orange	Red	Black	Copper net
7Pin Plug	3	5	2	-	-	-	1	4	6
9Pin Plug	5	3	2	7	6	8	1	4	9

◆ Dimensions(mm)

