ISC70 series — Solid-Shaft Incremental Rotary Encoder
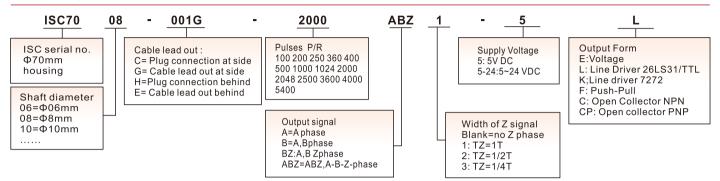
YUMO®

◆ 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.
Φ70mm housing

Shaft diameter
06=Φ06mm
08=Φ8mm
10=Φ10mm
……

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

Output signal
A=A phase
B=A,Bphase
BZ:A,B Zphase
ABZ=ABZ,A-B-Z-phase

Supply Voltage
5: 5V DC
5-24:5~24 VDC

Width of Z signal
Blank=no Z phase
1: TZ=1T
2: TZ=1/2T
3: TZ=1/4T

Output Form
E:Voltage
L: Line Driver 26LS31/TTL
K;Line driver 7272
F: Push-Pull
C: Open Collector NPN
CP: Open collector PNP

◆ 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
$4*10^{-8} Kgm^2$	-30~85℃	-35~95℃	IP51	275g

◆ Connection Table

Signal	A	B	Z	Ā	B̄	Z̄	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)