ISC58 series — Solid-Shaft Incremental Rotary Encoder
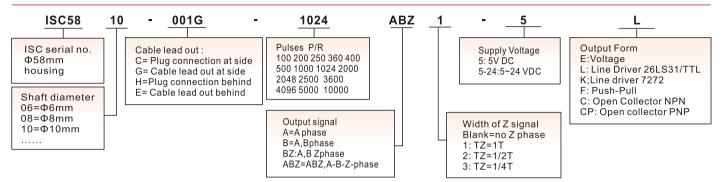
YUMO®

◆ **Application**
- Automatic control , control of transport vehicles, robot, X-Y labor ,printing, fork truck , CNC tooling 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**

ISC58　10　-　001G　-　1024　ABZ　1　-　5　　　L

ISC serial no. Φ58mm housing

Shaft diameter 06=Φ6mm 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 4096 5000 10000

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:20N, Axial:10N	50G/11ms	10G 10-2000Hz
Rotor Inertia	Working Temperature	Storage Temperature	Protection Grade	Weight
$4*10^{-8}$Kgm^2	-30~85℃	-35~95℃	IP51	270g

◆ **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)**