Hollow-Shaft Incremental Rotary Encoder

ORBITAL YUMO®



◆ Application

- Automatic control, measurements, robotic X-Y labor and printing machines.

◆ Features

- High reliability, long life, strong anti-interference ability and wide range of temperature adaption.

◆ Ordering Information

IHC38 08 - 102C - 1024 B Z 1 - 5-30 C

- **IHC38**: serial no. IHC38= Half Hollow IHA38=Full Hollow
- **08**: Hollow diameter 05=Φ5mm 06=Φ6mm 06.35=Φ6.35mm 08=Φ8mm
- **102C**: Cable lead out : C= Plug connection at side G= Cable lead out at side H=Plug connection behind E= Cable lead out behind
- **1024**: Pulses P/R 100 200 250 360 400 500 600 1000 1024 1200 2000 2500 2500 3600 .....
- **B Z**: Output signal A=A phase B=A,Bphase BZ:ABZphase ABZ=ABZ,A-B-Z-phase
- **1**: Width of Z signal Blank=no Z phase 1: TZ=1T 2: TZ=1/2T 3: TZ=1/4T
- **5-30**: Supply Voltage 5: +5V DC 5-30: 5~30V DC
- **C**: 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
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	300kHz	300kHz	300kHz	300kHz
Mechanical Specification				
Max speed(r/min)	Starting Torque	Max. Shaft Loading	Shocking	Vibration
6000	<0.05Nm	Radial:50N, Axial:20N	50G/11-ms	10G 10-2000Hz
Rotor Inertia	Working Temperature	Storage Temperature	Protection Grade	Weight
$4*10^{-8}Kgm^2$	-30~85℃	-35~95℃	IP51	100g

◆ Connection Table(17pin plug)

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

◆ Dimensions(mm)

