

# IHC38 series

# Hollow-Shaft Incremental Rotary Encoder



### ◆ 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

<u>IHA38</u>	<u>08</u>	-	<u>102G</u>	-	<u>2500</u>	<u>ABZ</u>	<u>1</u>	-	<u>5</u>		<u>L</u>
serial no. IHA38=Full Hollow	Cable lead out G=Cable lead out at side (Cable length 2 meters)				Pulses P/R 2500 (2500*4slope=10000)				Supply Voltage 5: 5V DC		Output Form L: Line Driver 26LS31
Hollow diameter 08=Ø8mm					Output signal ABZ=A,A-,B,B-,Z,Z-phase		Width of Z signal 1: TZ=1T				

### ◆ Technical Specifications

Electrical Specification				
Output circuit	Line driver output			
Power Vcc	5±0.25			
Current	≤150mA			
Load current	60mA			
High-level output	Min 3.4V			
Low-level output	Max 0.4V			
Rise Time Tr	Max 200ns			
Fall Time Tr	Max 200ns			
Max Responding Frequency	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 <sup>-8</sup> Kgm <sup>2</sup>	-30~85°C	-35~95°C	IP51	100g

### ◆ Connection Table

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

### ◆ Dimensions(mm)

