444



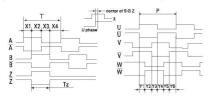
※ IHU4808 SERIES

Hollow shaft encoder, axis inside diameter $\Phi 8$ mm, housing diameter $\Phi 48$ mm, with flex bracket flange, easy for installing, low price at high performance.

Extensive to use for servomechanism, especially for servomotor.

Output waveform

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



Square-wave accuracy: $X_1+X_2=1/2T\pm 1/12T$ $X_3+X_4=1/2T\pm 1/12T$

Pitch error of period: $\pm 0.01T$ Pitch error of phase position: $\leq 1/18T$ Z phase: Tz = 1/4T (1T, 1/2T, $1/4T\cdots$)
Period of pulses: $T=360^\circ$ /N (N: output pulses)
Signal accuracy: Xn=1/4T+1/12T (n=1, 2, 3, 4)
A leads B clockwise when viewing the encoder shaft end, The position of Z phase against A, B phase is not specified. Period of UVW phase: $P=360^\circ$ /N, $\pm 1.5^\circ$ (N,=2p, 3p, 4p···)
Phase difference: $Yn=P/6\pm 1.5^\circ$ (n=1, 2, 3, 4, 5, 6)
Difference of phase Z and phase U: $C \leq \pm 1^\circ$

Positional relationship of A&B phases and U, V&W phases

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICA	TIONS					
Output wave	Square wave					
Output signals	A, B, Z, U, V, W,(Line driver output A, \overline{A} , B, \overline{B} , Z, \overline{Z} , U, \overline{U} , V, \overline{V} , W, \overline{W} phase)					
Current consumption	≤160mA					
Response Frequency	0~120KHz					
Output phase difference	90° ± 45°					
Supply voltage	5V DC					
Signal level	V _H ≥85%Vcc, V _L ≤0.3V					
Number of pulses	1000, 1024, 2048(2P, 3P, 4P); 2000(2P, 3P, 4P, 6P); 2500(2P, 3P, 4P, 5P, 6P)(Other number of pulse available on request)					
Output circuit	Line driver					
MECHANICAL SPECIFICATIONS						
Speed without sealing	6000rmp					
Rotor moment of inertia	Appr. 4.0x10 ⁻⁶ Kgm ²					
Starting torque without sealing	≤2.5x 10³Nm (+25°C)					
Shock resistance	980m/s², 6ms, 2 times each on XYZ					
Vibration proof	50m/s ² , 10~200Hz, 2 hours each on XYZ					
Working life	MTBF≥50000h (+25°C, 2000rpm)					
Weight	Appr. 140g (with 0.35 meter cable)					
ENVIRONMENTAL SPECIFICATIONS						
Working humidity	30~85% (No condensation)					
Storage temperature	-40℃~110℃					
Working temperature	-25℃~100℃					
Protection class	IP54					

Terminal assignment

are not specified.

Signal	+5V	0V	SIGA	SIGĀ	SIG B	SIG B	SIG Z	SIG Z	SIGU	SIG Ū	SIG V	SIG V	SIG W	SIG W	Shield
Cable Color	Red	Bla	Gre	Bla/Gre	Whi	Bla/Whi	Yel	Bla/Yel	Bro	Bla/Bro	Gre	Bla/Gre	Ora	Bla/Ora	N.C
Note: Shie	Note: Shield is attached to connector housing, 0.35 meter cable lengths (other cable lengths on order).														

Ordering code

IHU4808	— 001	G	2500	BZ1	— 6P	5	L
Series	Sequence	Connection	Number	Output	Period of	Supply	Output
	Number		of Puleas	Signale	IIV/W Dhaca	Voltage	Circuit

Series: IHU4808, Radial cable: G, Number of pulses: 2500 p/r, Output signals: AABBZZUUVVWW, Tz=1T, Period of UVW phase: 6P, Supply voltage: 5V DC, Output circuit: Line driver, Record: IHU4808-001G2500BZ1-6P5L

Dimensions

