INCREMENTAL
HOLLOW TYPE

H35 Series

■Features : AC, DC SERVO MOTOR
Small sized, High-response frequency
Easy to be attached, Customized design,
Prompt delivery

Model

INCREMENTAL HOLLOW TYPE
Outer Diameter Ø35

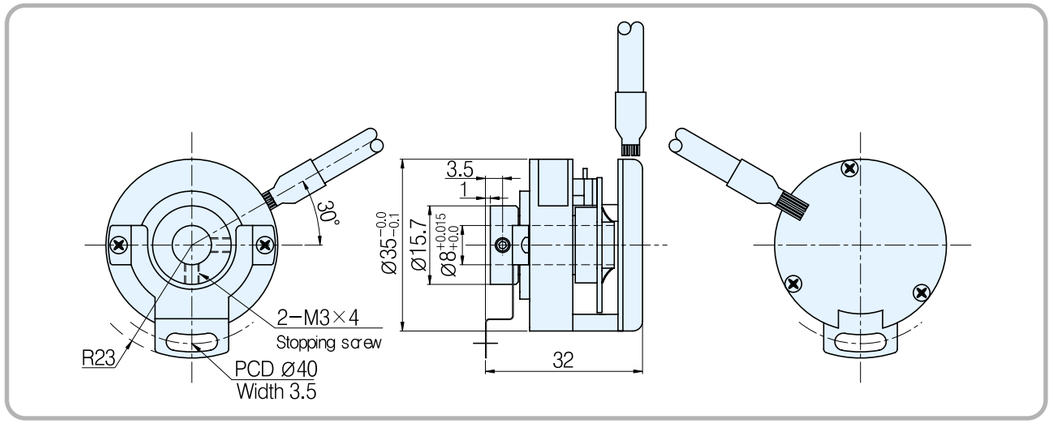
Shaft Size
8 : Ø8 ※Option : 6 : Ø6

H35 - 8 - □□□□ - □□ - □

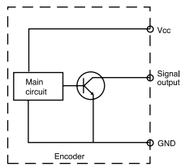
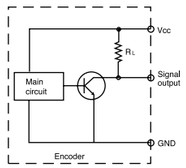
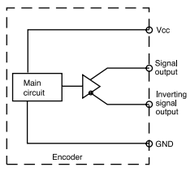
Resolution(P/R)	Output Signal	Output Form	Cable Length
0512 1000 1024 2000 2048 2500 3000	Z : A, B, Z V : A, $\bar{A}$, B, $\bar{B}$, Z, $\bar{Z}$ W : A, $\bar{A}$, B, $\bar{B}$, Z, $\bar{Z}$ U, $\bar{U}$, V, $\bar{V}$, W, $\bar{W}$	O : Open Collector V : Voltage Output L : Line Driver	1 : 1[M] 2 : 2[M] 3 : 3[M] 4 : 5[M] 5 : 10[M]

※ Output Form of power may be different depending on the type of output and be sure to check the electric spec.

External Dimension



Output Circuit

Output	Open Collector	Voltage Output	Line Driver
Circuit			

Electrical Spec.

Output type	Open Collector	Voltage Output	Line Driver
Power Supply	DC +12[V] Ripple p-p : less than 5%	DC +12[V] Ripple p-p : less than 5%	DC +5[V] Ripple p-p : less than 5%
Consuming Current (In case of no load)	70㎃ Max	200㎃ Max	300㎃ Max
Maximum Response Frequency	300 KHz		
Output voltage	Less than V_L 0.5[V] / More than V_H 2.5[V](In case of inputting +5V) / More than V_H 8[V](In case of inputing +12V)		
Output current	Less than 20mA	Less than 20mA	Less than 10mA
Rising, decline time	Less than 3㎲	Less than 3㎲	Less than 1㎲
Common conditions	In case that the cable length of output side is 1[M] and load resistance is less than 1[kΩ]		

Mechanical Spec.

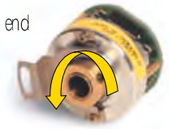
Starting Torque	80g - cm Max
Maximum number of revolution	5000 rpm
Bearing lifetime	27,000[hr](In case of rotating by 5000rpm)
Allowable Shaft Load	Radial : 2.2kg Max Axial : 1.1kg Max
Position deflection of allowable shaft	Radial : Less than 0.03 mm Axial : Less than 0.2mm
Connection Table	7P(AWG26) Shield CABLE
weight	100g

Rigid Spec.

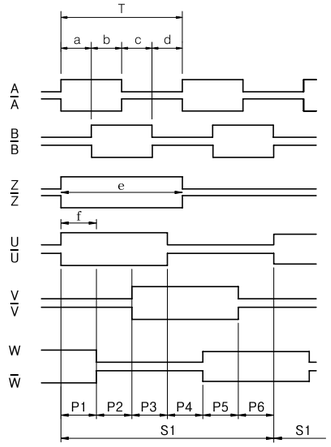
Operating Temp. Range	-10℃ ~ +70℃ (No freezing)
Preserving temp	-20℃ ~ +85℃
Using humidity	35% ~ 70% RH
Preserving Humidity	30% ~ 80% RH
nternal Vibration	5G
Internal Shock	50G
Degree of Protection	IP 00

Output Phase Shift

CCW ➡ Counterclockwise viewed from shaft end



a + b, c + d = T/2 ± T/10
a, b, c, d = T/4 ± T/10
e = T ± T/2(±1°)
f = The center of Z phase and U phase (±1°)
From Uch (rise point) to Zch center



Pole	8
P1	
P2	15°
P3	±
P4	0.9°
P5	
P6	
S1	
S2	90°
- -	

Connection Table

Cable's Color	Connection Table	
	Servo Motor	DC Motor
Output Form	Line Driver	Open Collector Voltage Output Line Driver
Red	Vcc	A Sig
Black	GND	GND
Green	A Sig	B Sig
White/Green	$\bar{A}$ Sig	
Gray	B Sig	
White/Gray	$\bar{B}$ Sig	
Yellow	Z Sig	Z Sig
White/Yellow	$\bar{Z}$ Sig	
Brown	U Sig	
White/Brown	$\bar{U}$ Sig	
Blue	V Sig	$\bar{B}$, Sig GND
White/Blue	$\bar{V}$ Sig	
Orange	W Sig	$\bar{Z}$, Sig GND
White/Orange	$\bar{W}$ Sig	
White		Vcc
Pink		$\bar{A}$, Sig GND
Shield	CASE Shield	CASE Shield