

ABSOLUTE TYPE

ASC-HP

Model



Water Proof 50 Series Models

- Most Advanced IP65 Encoder.
- Large Bearings.

Model

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Style: H: Hollow Shaft, P: Dust-Proof & Water-Proof

Resolution:

8	8bit(256)
720	10bit(720)
10	10bit(1024)
12	12bit(4096)

Output Code:

- G : Grey Code Negative Logic
- A : Binary

Output Mode:

- No Indication : Output
- C : Open Collector Output

Power Source:

- L : 5 ~ 12 ± 10%
- H : 12 ~ 24 ± 10%

Hollow Shaft Diameter:

- 8 : 8 (Standard)
- 6 : 6
- 635 : 6.35

Cable Length:

- 200 : 2000mm

Due to unavailable combination of specifications, Please make sure with sales Reps of the model name.

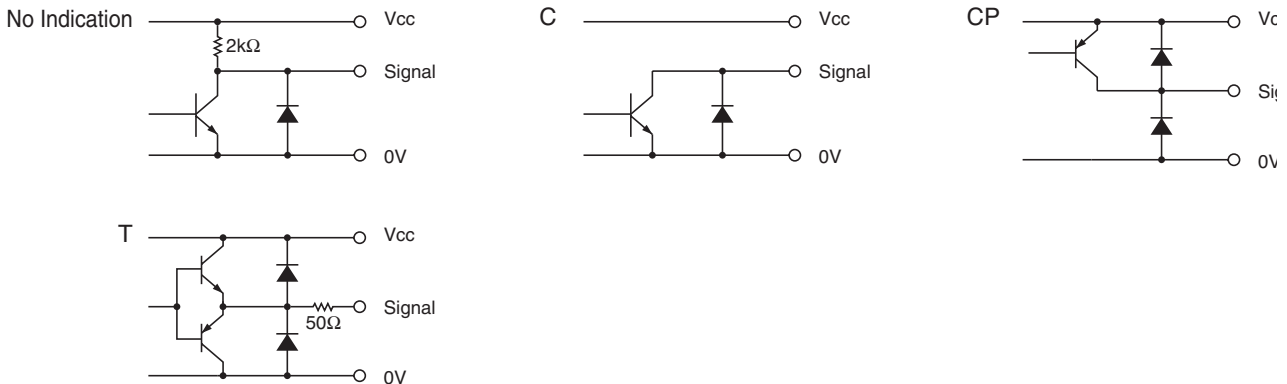
External Dimension

[Thrust rlay] [Radial rlay] [Perpendiculasing between frenge and shaft]

[Setting dimension]

Shaft ring no.	D	d
800	8H7Depth11	8 g 6
600	6H7Depth11	6 g 6
635	6.35H7Depth11	6.35 g 6

Input & Output Current



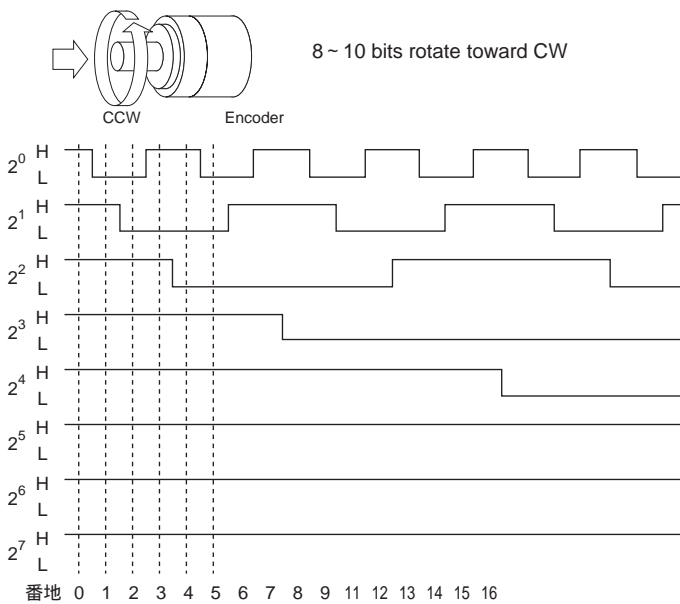
Electrical Spec.

TYPE		Voltage Output	C
Supply Voltage		DC 4.5 ~ 13.2 V DC 10.8 ~ 26.4 V	
Requirement		100 mA Max	
Output Voltage	“H”	Within -1 Power Volt(Exclude C)	Within - 3 power volt
	“L” ※1	0.5 V or Less(Exclude CP)	3 V Max
Maximum Output Current		20 mA MAX	40 mA MAX
Rise & Fall Time		2 μs Max	
Maximum Frequency Response ²		10kHz(256)	20kHz(720,1024,4096)

※1) at Maximum Output Current ※2) When The Lording is 5V 1K

Wave Form.

(Extract) Rotating Toward Clockwise Viewed from an Arrow=256•720•1024
Rotating Toward Counter Clockwise Viewed from an Arrow=4096



Electrical Connections

(4096)		(256•720•1024)	
Color of Lead Wire	Description	Color of Lead Wire	Description
Red	Power Souce	Red	Power Souce
Black	OV Common	Black	OV Common
Brown	Signal 2 ⁰	Brown	Signal 2 ⁰
Brown-White	Signal 2 ¹	Orange	Signal 2 ¹
Orange	Signal 2 ²	Yellow	Signal 2 ²
Orange-White	Signal 2 ³	Green	Signal 2 ³
Yellow	Signal 2 ⁴	Blue	Signal 2 ⁴
Yellow-White	Signal 2 ⁵	Purple	Signal 2 ⁵
Green	Signal 2 ⁶	Gray	Signal 2 ⁶
Green-White	Signal 2 ⁷	White	Signal 2 ⁷
Blue	Signal 2 ⁸	Pink	Signal 2 ⁸ Only available for 1024 split type
Blue-White	Signal 2 ⁹	Sky Blue	Signal 2 ⁹ Only available for 1024 split type
Gray	Signal 2 ¹⁰	Shielding Braid	F.G
Gray-White	Signal 2 ¹¹		
Shielding Braid	FG		

Mechanical Spec.

Starting Torque	9.8×10 ⁻³ N · m Max
Angular Acceleration	1×10 ⁵ rad/s ²
Shaft Loading	Thrust axial 49N
	Radial 78.4N
Moment of Inertia	3×10 ⁻⁶ kg · m ²
Maximum RPM	5000r/min(Maximum) 3000r/min(Continuous)
Net Weight(W/O Cable)	250g Max

Environmental Spec.

Operating Temperature	-10°C ~ +60°C
Storage Temperature	- 30°C ~ +85°C
Humidity	RH 85% Max No Condensation
Vibration	10 ~ 55 Hz / 1.5mm 2 h
Shock	980m/s ² , 11ms X, Y, Z Each 3 times
Degree of Protection	IP65