

ABSOLUTE TYPE

ASC-SP Model



Heavy Duty 50mm Diameter Encoder

• Large Size Bearings. The Highest Shaft Load in The Class Radial 78.4N Thrust 49N.



Model

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Style: S: Shaft, P: Dust-Proof & Water-Proof

Resolution: 8 (8bit 256div/r), 720 (10bit 720div/r), 10 (10bit 1024div/r), 12 (12bit 4096div/r)

Output Code: G: Grey Code Negative Logic, A: Binary Code Negative Logic

Output Mode: No Indication: Voltage Output, C: Open Collector Output, CP: Push-Pull Output, T: Complementary Output

Power Supply(Vcc): L: 5~12V±10%, H: 12~24V±10%

Cable Length: 200:2000mm

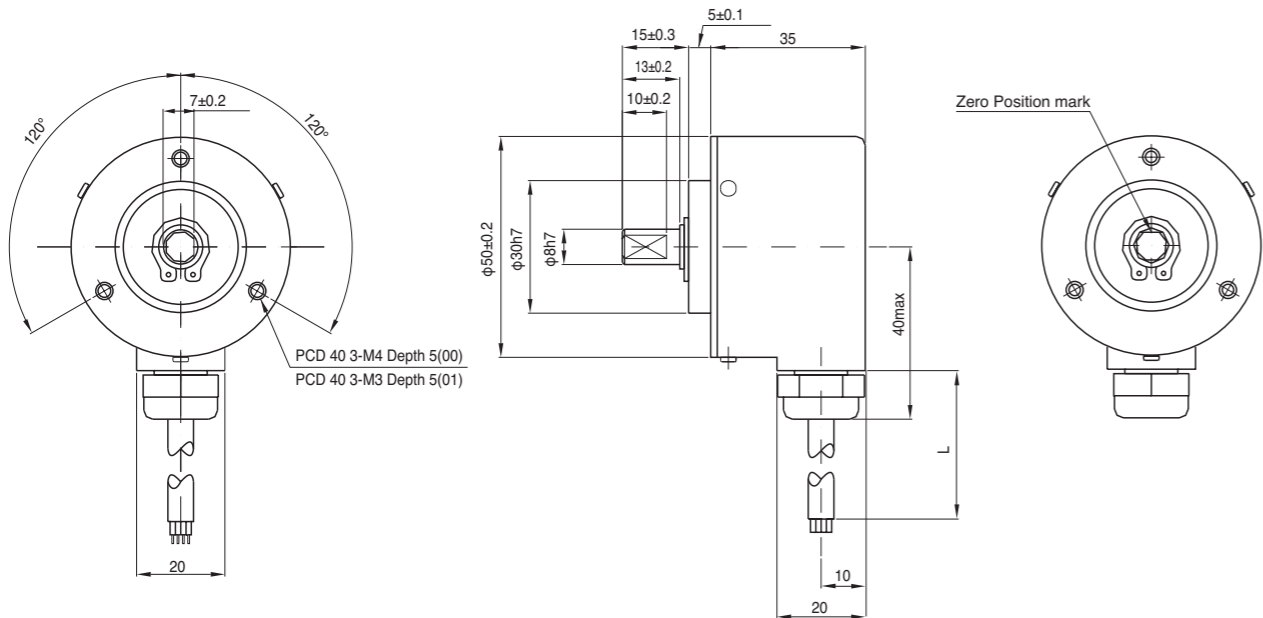
Complying with RoHS

Outer Diameter Shaft: 6: φ 6, 8: φ 8, ※ 9525: φ 9.525, ※ 10: φ 10, ※: Option

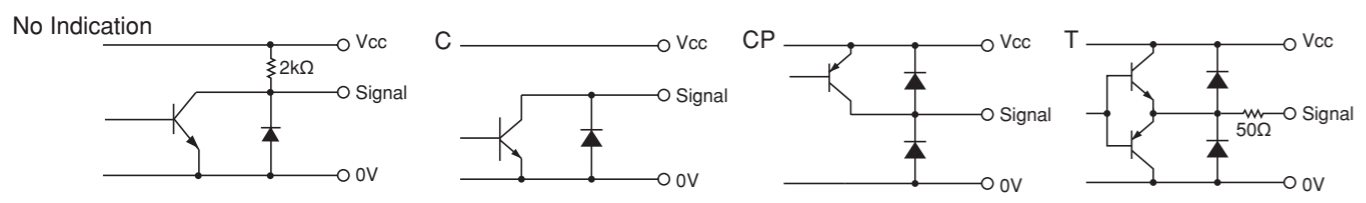
PCD 40 3-M4 Depth 5(00), PCD 40 3-M3 Depth 5(01)

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

External Dimension



Output Circuit

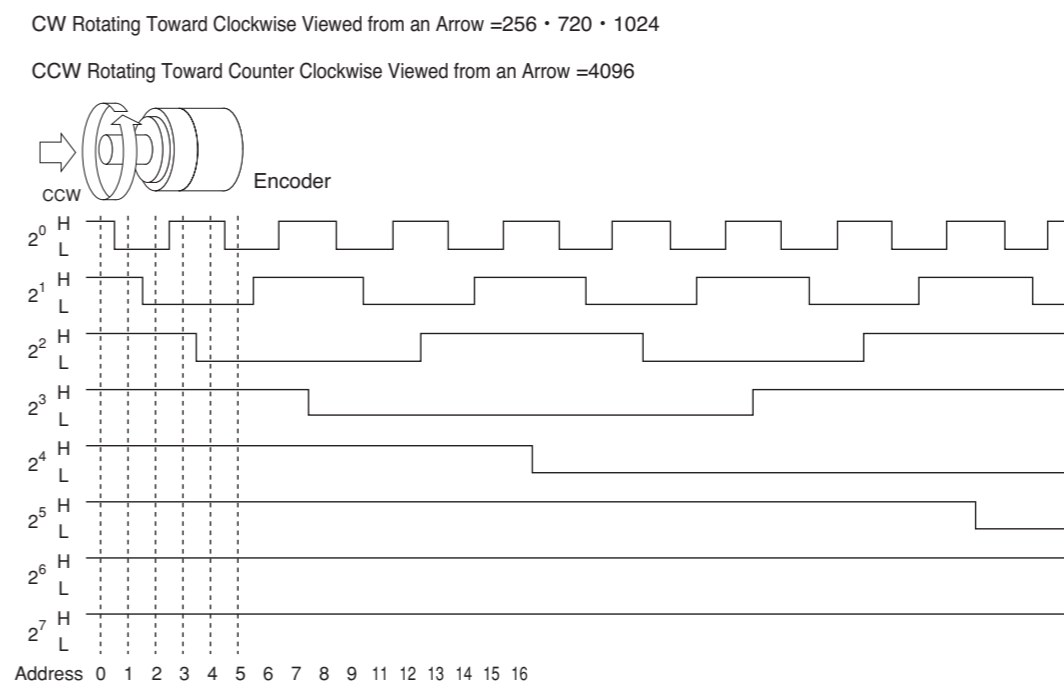


Electrical Spec

	TYPE	No Indication	C	CP	T
Power Supply(Vcc)		L : DC 4.5~13.2 V H : DC 10.8~26.4 V			
Current Consumption		100 mA Max			
Output Voltage	"H"	Vcc-1V Min	—	Vcc-1V Min	Vcc-3V Min
	"L" *1	0.5 VMax		—	3 V Max
Maximum Sink Current		20 mA			
Rise & Fall Time		2 μs Max			
Maximum Frequency Response*2		10kHz (256) 、20kHz (720、1024、4096)			

*1) at Maximum Sink Current *2) When The Loading is 5V 1KΩ

Wave Form



Electrical Connections

Color	Signal
Red	Power Supply(Vcc)
Black	0V
Brown	Signal 2 ⁰
Brown-White	Signal 2 ¹
Orange	Signal 2 ²
Orange-White	Signal 2 ³
Yellow	Signal 2 ⁴
Yellow-White	Signal 2 ⁵
Green	Signal 2 ⁶
Green-White	Signal 2 ⁷
Blue	Signal 2 ⁸
Blue-White	Signal 2 ⁹
Gray	Signal 2 ¹⁰
Gray-White	Signal 2 ¹¹
Shield	FG

Color	Signal
Red	Power Supply(Vcc)
Black	0V
Brown	Signal 2 ⁰
Orange	Signal 2 ¹
Yellow	Signal 2 ²
Green	Signal 2 ³
Blue	Signal 2 ⁴
Purple	Signal 2 ⁵
Gray	Signal 2 ⁶
White	Signal 2 ⁷
Pink	Signal 2 ⁸ Only available for 10bit output
Sky Blue	Signal 2 ⁹ Only available for 10bit output
Shield	F.G

Mechanical Spec

Starting Torque	9.8×10 ⁻³ N · m Max
Angular Acceleration	1×10 ⁵ rad/s ²
Shaft Loading	Thrust 49N
	Radial 78.4N
Moment of Inertia	3×10 ⁻⁶ kg · m ²
Maximum Permissible Speed	Instantaneous : 5000min ⁻¹ Continuous : 3000min ⁻¹
Net Weight(Without 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 X,Y,Z Each 2h
Shock	980m/s ² ,11ms X, Y, Z Each 3 times
Ingress Protection	IP65