

# Magnetic Encoders

- 雙向霍爾作用譯碼器  
Two Channel Hall Effect Encoder
- 單向霍爾作用譯碼器  
One Channel Hall Effect Encoder

★ 使用相對溼度: 20%~85%RH    ★ 使用溫度範圍: -10°C~+60°C  
Operating relative humidity    Operating temperature range

外形尺寸 APPEARANCE SIZE

MOTOR

☆ WITHOUT CAP

Motor φA	CAP L	COUNTS POLES OF PER TURN(PPR)		Wire Type Length	Connector Type
		current	limit.		
φ12	☆ 6.5	2, 6 (1, 3)	6 (3)	UL1061 AWG26 100mm	JST ZHR-6 P=1.5-6P
φ15.4	☆ 6.5	2, 6 (1, 3)	6 (3)		
φ20.3	☆ 8.5	2, 6 (1, 3)	6 (3)		
φ30.0	12.6	2, 6, 14 (1, 3, 7)	14 (7)	UL1007 AWG24 100mm	JST PHR-6 P=2.0-6P
φ32	14.3	14 (7)	14 (7)		
φ36	13.5	14 (7)	14 (7)		
φ42.5	15.5	2, 10 (1, 5)	10 (5)	UL1007 AWG24 UL1007 AWG18 100mm	JST PHR-4  2 1 Molex 09-50-3021 P=3.96-2P
φ52	18.0	2, 10 (1, 5)	10 (5)		
φ54		2, 10 (1, 5)	10 (5)		

電氣特性

ELECTRICAL CHARACTERISTICS

規格特性 CHARACTERISTICS	代號 SYMBOL	測試條件 TEST CONDITIONS	極小 MIN.	基準 REF.	最大 MAX.	單位 UNITS
輸入電壓 Supply Voltage	Vcc	---	3.5	-	20	V
輸出飽和電壓 Output Saturation Voltage	Vce(sat)	Vcc=14V ; Ic=20mA	-	300	700	mV
輸出漏電電流 Output Leakage Current	Icex	Vce=14V ; Vcc=14V	-	< 0.1	10	μV
輸入電流 Supply Current	Ice	Vcc=20V Output open	-	5	10	mA
輸出上升時間 Output Rise Time	tr	Vcc=14V ; RL=820 $\sqrt{\frac{S}{T}}$ CL=20pF	-	0.3	1.5	μS
輸出下降時間 Output Fall Time	tf	Vcc=14V ; RL=820 $\sqrt{\frac{S}{T}}$ CL=20pF	-	0.3	1.5	μS

輸出電路  
Output Circuit :

需外加電阻 才能產生訊號  
Extra Varistor(1KΩ) needed

輸出波形  
Output Wave :

90° ± 1/6T

Two Channel Encoder  
Connections :

1. Black : -MOTOR
2. Red : +MOTOR
3. Brown : HALL SENSOR Vcc
4. Green : HALL SENSOR GND
5. Blue : HALL SENSOR A Vout
6. Purple : HALL SENSOR B Vout

One Channel Encoder  
Connections :

1. Black : -MOTOR
2. Red : +MOTOR
3. Brown : HALL SENSOR Vcc
4. Green : HALL SENSOR GND
5. Blue : HALL SENSOR A Vout
6. Purple : EMPTY