

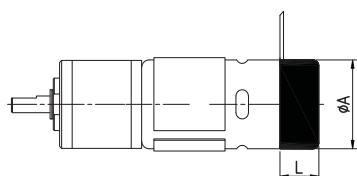
Magnetic Encoders

Two Channel Hall Effect Encoder 雙向霍爾作用編碼器

One Channel Hall Effect Encoder 單向霍爾作用編碼器



馬達外徑 & 長度/



★ WITHOUT CAP

Motor (φA)	CAP (L)	Counts poles of per turn (PPR)	
		Current	limit.
∅ 12	★ 6.5	2, 6 (1, 3)	6 (3)
∅ 15.4	★ 6.5	2, 6 (1, 3)	6 (3)
∅ 20.3	★ 8.5	2, 6 (1, 3)	6 (3)
∅ 22	12.6	2, 6 (1, 3)	6 (3)
∅ 30	12.6	2, 6, 14 (1, 3, 7)	14 (7)
∅ 32	14.3	14 (7)	14 (7)
∅ 36	13.5	14 (7)	14 (7)
∅ 42.5	15.5	2, 10 (1, 5)	10 (5)
∅ 52 & ∅ 54	18	2, 10 (1, 5)	10 (5)

Motor (φA)	Wiring Diagram
∅ 12, ∅ 15.4, ∅ 20.3, ∅ 22	JST ZHR-6 P=1.5-6P UL1061 AWG26 100mm 1 2 3 4 5 6
∅ 30, ∅ 32, ∅ 36	JST PHR-6 P=2-6P UL1007 AWG24 100mm 6 5 4 3 2 1
∅ 42.5, ∅ 52 & ∅ 54	Molex 09-50-3021 P=3.96-2P UL 1007 AWG24 UL 1007 AWG18 100mm 6 5 4 3 2 1 JST PHR-4 P=2-4P

Connections
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

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
輸出漏電流 Output leakage current	Icex	Vcc = 14V ; Vce = 14V	-	<0.1	10	μA
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 Ω ; CL = 20pF	-	0.3	1.5	μS
輸出下降時間 Output fall time	tr	Vcc = 14V ; RL = 820 Ω ; 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 Resistor(1kΩ) required for signal.

輸出波形 Output wave

90° ± 1/6 T

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