

FOTEK

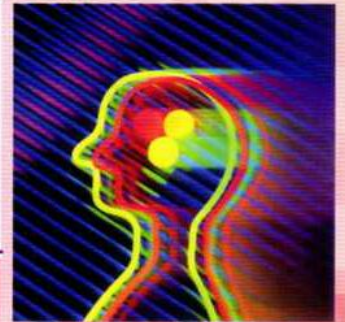
Magnetic Absolute Rotary Encoder

電磁式絕對值譯碼器

CE RoHS



- High Reliability
- High Noise Resistance
- Wild operating voltage
- Electronic zero point settable
- Harsh circumstances suitable
- Several output code optional
- 高可靠度
- 高抗干擾力
- 廣泛工作電壓範圍
- 電氣零點可設定
- 適用於惡劣環境不怕粉塵
- 多種輸出碼可選擇



◆ Guiding of model [Absolute] / 絕對值型號索引

Ex : MAT - 1024 P - BCD - 8Φ - M12			
<p style="text-align: center;">1 2 3 4 5 6</p>			
1	Product (產品代號) : 「MAT」= 50Φ Magnetic Absolute Encoder	4	Output code (輸出碼) 「GC」= Gray code 「Non」= Binary code 「BCD」= BCD code
2	Resolution (解析度) : 4PPR ~ 1024PPR 「256」= 256 PPR (8 bit) 「360」= 360 PPR (9 bit) 「1024」= 1024 PPR (10 bit)	5	Shaft diameter (轉軸外徑) : 「Non」= 6.0 mm ; 「8Φ」= 8.0 mm
3	Output method (輸出方式) : 「Non」= NPN 「P」= PNP	6	Connection method (出線方式) : 「Non」= Lead wire 「PG」= M12 Lead wire 「M12」= M12 connection
<p>1> Pulse per Revolution (PPR) : 4 / 6 / 8 / 12 / 16 / 24 / 32 / 64 / 128 / 256 / 360 / 512 / 720 / 1024 2> It is accepted to manufacture for special resolution. 可接受訂製非規格的解析度。</p>			

◆ Electrical Specification / 電氣規格

Output method	輸出方式	NPN	PNP
Operating voltage	工作電壓	5 ~ 30VDC	
Output code	輸出碼	Gray code, Binary code or BCD code	
Response frequency	響應頻率	20K Hz min..	
Current consumption	耗電流	60 mA max.	
Ripple of power	電源漣波	10% peak to peak	
Output current	輸出電流	100mA max.	
Protection circuit	保護回路	Short circuit & polarity reversed	
Voltage drop	輸出壓降	0.6V max.	
Residual voltage	殘餘電壓	0.1V max.	
Leakage current	洩漏電流	0.1mA max.	
Noise resistance	抗干擾	2kv / 1μs	
Dielectric strength	電介強度	2.5kv / 1 minute min.	
Insulation strength	絕緣強度	100 MΩ / 500vdc	
Approval	安規	CE / RoHS	

◆ Connections / 接線圖

Connector No.	Wire color	Description
# 1	Brown	+ V
# 3	Blue	0 V
# 4	Black	2 ⁰
# 2	White	2 ¹
# 5	Yellow	2 ²
# 6	Grey	2 ³
# 7	Green	2 ⁴
# 8	Blue/Red	2 ⁵
# 9	Grey/Red	2 ⁶
# 10	White/Red	2 ⁷
# 11	Yellow/Red	2 ⁸
# 12	Green/Red	2 ⁹ or Zero in
Non	Orange	Zero in

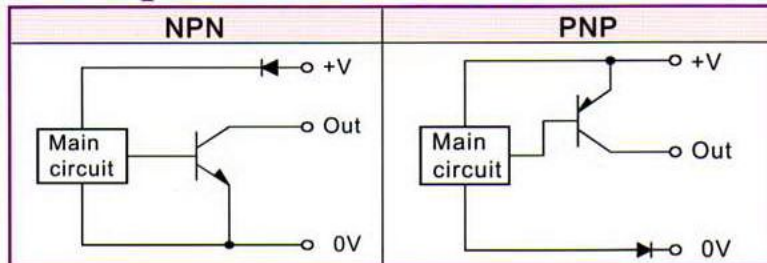
◆ Mechanical Data / 機械規格

Specification	規格	Data
Starting torque	起動力矩	0.098 kg-m
Shaft moment of inertial	慣性力矩	1x10 ⁻⁶ kg-m ²
Shaft loading	轉軸負載	Radial < 300 kg ; Axial < 200kg
Rotational speed max.	最大轉速	6000 RPM
Housing material	外殼材質	Intensive PPS
Shaft material	轉軸材質	SUS-316

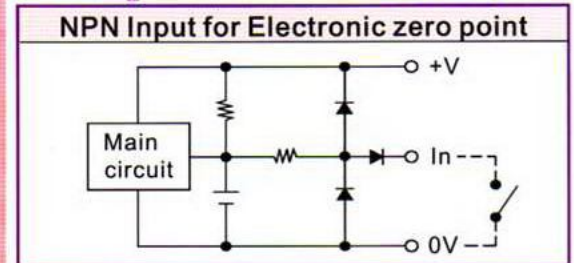
◆ Environment Data / 環境規格

Specification	規格	Data
Operating circumstance 工作環境		-25°C ~ +70°C ; 85%RH max.
Vibration resistance 抗振動		10 ~ 55 Hz / 1.5 mm ; 2 Hr/ X.Y.Z direction each
Shock resistance 抗衝擊		490m/s ² with 11ms in X.Y.Z direction 3times each
Protection class 保護等級		IP-64

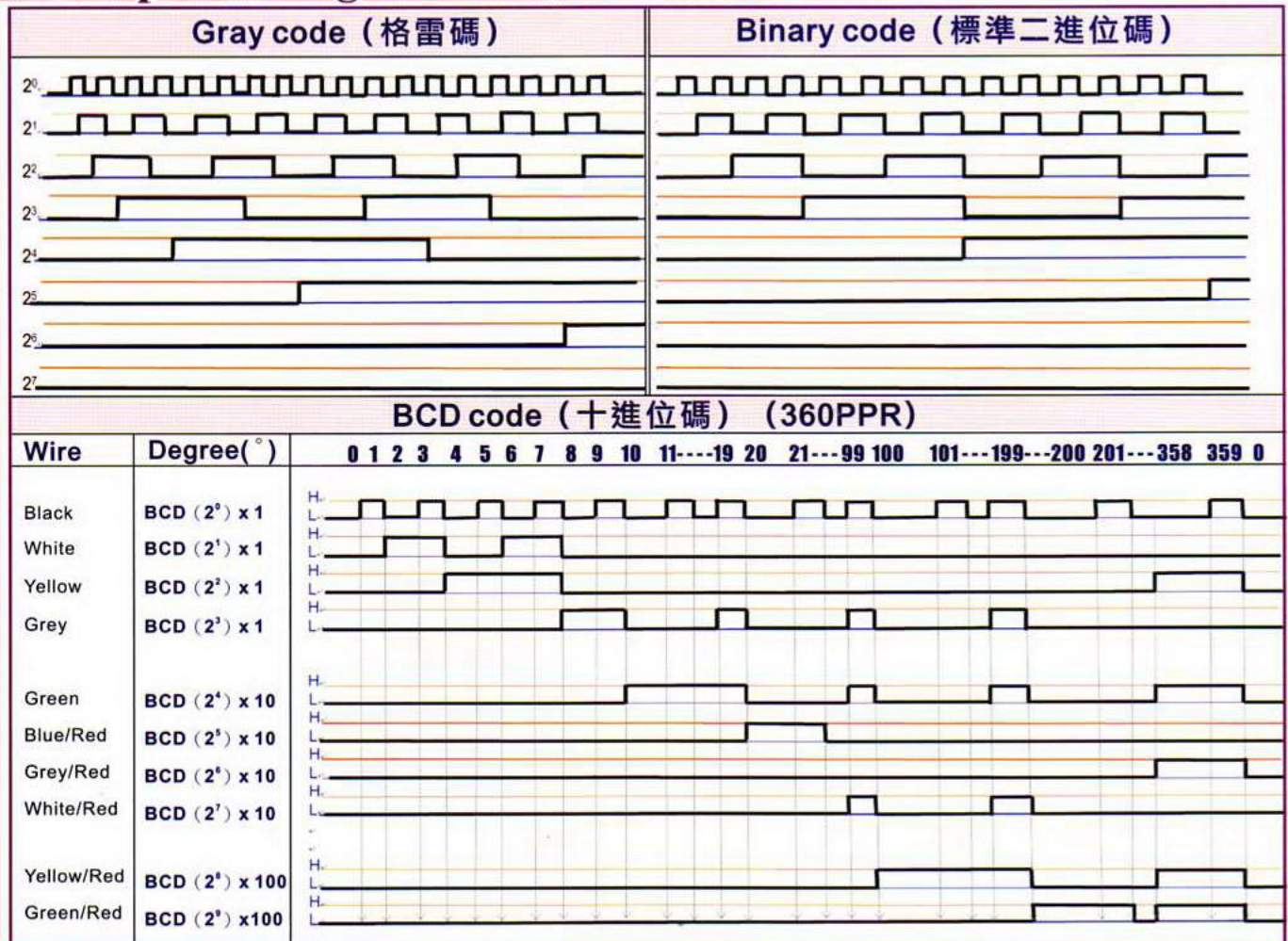
◆ Output circuit / 輸出回路



◆ Input circuit / 輸入回路



◆ Output timing chart / 輸出時序圖



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2010/4/1

Specification may be modified without
notice in advance.

規格變更恕不事先通知

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