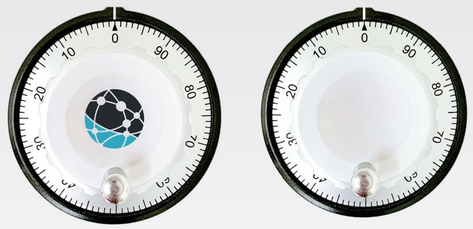
電子手輪
Manual Pulse Generator

SCAN&GO

特色
FEATURES

- 外徑尺寸：58、72、125、140 mm
- 質量輕且耐衝擊
- 寬電壓輸入電壓 (DC5V-DC24V)
- 逆向電源保護
- 抗靜電±10KV
- 防塵、防水、防油、耐酸鹼
- 壽命300萬轉以上
- CE/RoHS

- Scale-dial outer diameter: 58, 72, 125,140 mm.
- The weight is light and impact resistant.
- Wild voltage input (DC5V to DC24V).
- Reverse power polarity protection.
- Anti-static interference ±10KV.
- Dust-proof, water-proof, oil-proof, acid-alkali resistance.
- Over 3 million cycles.
- CE/RoHS



MPG產品編號
MPG Ordering Information

手輪PPR PPR	迴路形式 Circuit	輸出形式 Output	-	材質款式 Material	用途別 Application	外徑尺寸 Diameter
① 100PPR ② 25PPR	Ⓡ 電阻式 Pull-up Ⓓ 差動式 Line Driver	⑤ 5V ① 開迴路 Open Circuit		Ⓜ 金屬 Metal Ⓑ 大型手輪 Big Type	Ⓢ 操作面板 Control Panel Ⓗ 手持單元 Handy MPG	⑦ 72mm ⑤ 58mm ④ 140mm ② 125mm

技術參數 Major Parameters

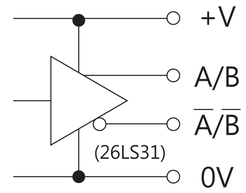
輸入電壓 Input Voltage	電壓輸出 Out Voltage	最大頻率回應 Max Freg. Resp.	最大輸出電流 Max Output Current	上升/下降時間 Tr/Tf Time	工作溫度 Working Temp.	儲存溫度 Storing Temp.
DC5V ~ DC24V	High: ≥Vcc-0.5V (Line Driver ≥3.5V) Low: ≤0.1V	5KHz	20mA MAX	≤1μs	-10℃ ~ +60℃	-20℃ ~ +70℃

最大功率電流 Max Power Current	啟動轉矩 Start Torgue	軸荷重 Axis Load	最大高轉速 Max Speed	迴轉壽命 Rotate	重量 Weight	保護機制 Protection
80mA MAX	$1.6x10^{-2}$N•m ~ $6.0x10^{-2}$N•m	Axial: 9.8N Radial: 16.6N	Inst.: 600RPM Cont.: 200RPM	Over 3 million cycles. (300RPM)	≤50g (Not include dial)	ESD±10KV IP65/CE

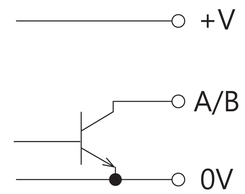
產品組合
Product Portfolio

MPG信號迴路
MPG Electric Circuits

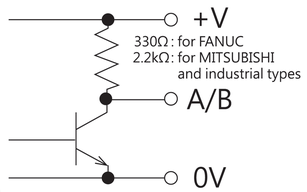
差動式 Line Driver



開迴路式 Open Circuit

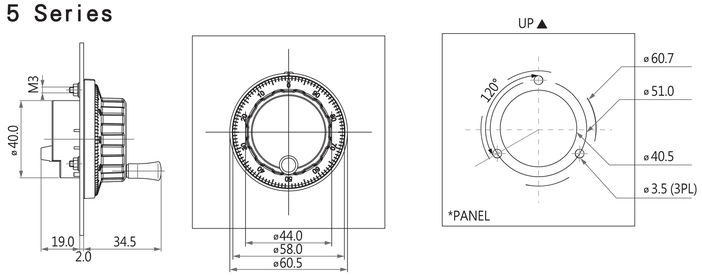


電阻式 Pull-up

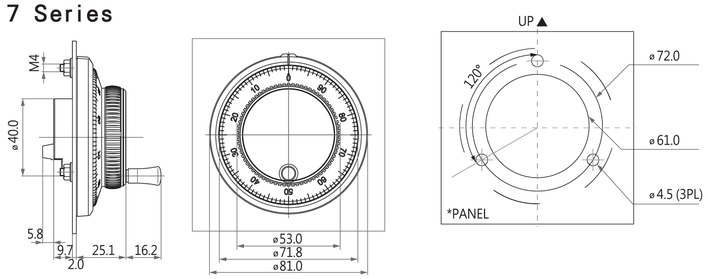


尺寸圖
Dimension Drawing

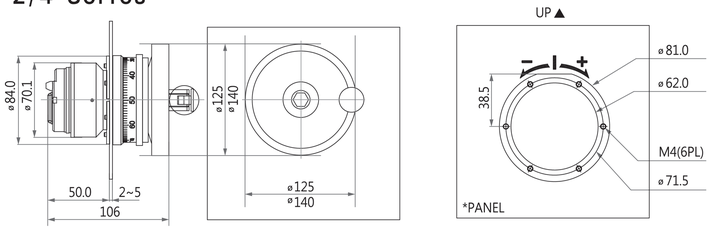
5 Series



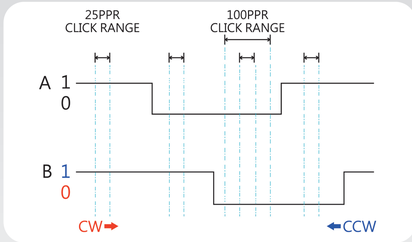
7 Series



2/4 Series



相位圖 Phase Diagram



順時針：當A上升時，B下降　**逆時針**：當A上升時，B上升
Clockwise: when Phase A goes up, Phase B goes down
Counterclockwise: when Phase A goes up, Phase B also goes up.

標準規格 Standard Specification

項次 NO.	型號 Model	使用對象 Application	規格 Specifications
1	**1R5**	發那科 FANUC	100PPR / in 5-24V / out 5 V / 電阻式輸出 Pull-up (330Ω)
2	**2R5**	三菱 MITSUBISHI	25PPR / in 5-24V / out 5 V / 電阻式輸出 Pull-up (2.2KΩ)
3	**1D5**	西門子 SIEMENS	100PPR / in 5 V / out 5 V / 差動式輸出 Line Driver
4	**141**	產業型 Industrial Type	100PPR / in 5-24V / out 5-24V / Open Circuit
5	**1R1**	產業型 Industrial Type	100PPR / in 5-24V / out 5-24V / Open Circuit (2.2KΩ)
6	**241**	產業型 Industrial Type	25PPR / in 5-24V / out 5-24V / Open Circuit
7	**2D5**	產業型 Industrial Type	25PPR / in 5V / out 5 V / 差動式輸出 Line Driver
8	**161**	產業型(特殊品)Industrial Type	100PPR / in 5-24V / out 5-24V / 差動式輸出 Line Driver