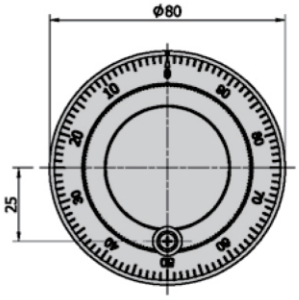
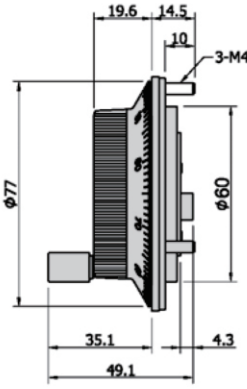
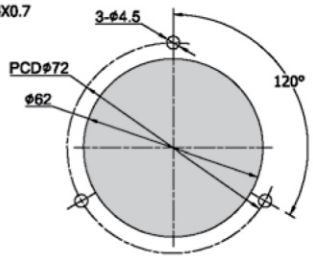
# FFUBA MPG-N4 脉波信号产生器[电子手轮] MPG系列




cutting of panel

## ELECTRICAL SPEC.

| | |
|---|---|
| Detection System | Incremental 增量型 |
| Output Wave 輸出波形 | Square Wave 方波 |
| Standard Number of Pulse Per Revolution 解析 | 25, 100 |
| Output Phase 輸出相 | AB phase |
| Electronics 電路特性 | NPN Voltage 電壓型 and Line Driver 差動式 |
| Power Supply 供應電源 | DC 8~26V, DC 5V fixed |
| Current Consumption 消耗電流 | < 60 mA |
| Output Capacity 輸出容量 | Sync. Current: 20 mA, Residual Voltage: 0.5V or less |
| Max. Response 最大響應頻率 | 10K Hz |
| Phase Different 相位差 | A, B phase different 90°±45° (T/4±T/8) |
| Wave Form Rise / Fall 波形上下時間 | 2 μs or less |

## MECHANICAL SPEC.

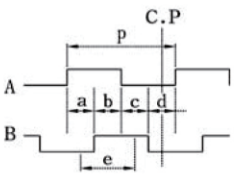
| | |
|---|---|
| Shaft Loading 軸荷重 | Axial 軸向: 1 Kg, Radial 徑向: 2 Kg |
| Starting Torque (at 25°C) 起動轉矩 | > 600 g |
| Max. Speed 最大機械容許速度 | 600 rpm (Maximum 瞬間容許速度); 200 rpm (Continuous 連續容許速度) |
| X.Y.Z. Vibration 震動 | 10 ~ 50 Hz / 1.5 mm X.Y.Z. 2hr) |
| Shock 衝擊 | 50 g per 11 ms |
| Rotational Life 回轉壽命 | $10^6$ cycles (200 rpm) |
| Weight 重量 | ≤ 400 g |

## ENVIRONMENTAL SPEC.

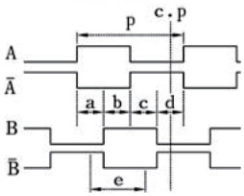
| | |
|---|---|
| Operating Temp. / Humidity 操作溫度/濕度 | -10°C ~ 60°C, RH 35% ~ 90% (No Condensation) |
| Storage Temp. 儲存溫度 | -20°C ~ 80°C |

## OUTPUT WAVE FORM (Clockwise rotation is "CW Rotation" looked from the front side)

NPN Voltage / NPN Open Collector




Line Driver

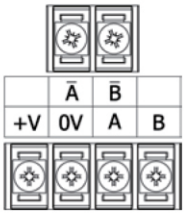



- P = 1 P/R; a, b, c, d = P/4 ± P/6
- C.P= click point 停止點信號
  *(For 25 P/R, C.P is at each position of a, b, c, d.*
  *25 PPR 的停止點信號在 a, b, c, d 各個位置。)*
- Point e is recommended as the system switching timing.
  e 點爲建議信號讀取/切換的範圍。

## ORDERING INFORMATION

**MPG – N4 –** *Pulse per Revolution 解析* **–** *Electronics & Supply Voltage 電路特性 & 供應電源*

**25**: 25 PPR
**100**: 100 PPR

**V**: NPN Voltage 8~26Vdc
**V5**: NPN Voltage 5Vdc
**L**: Line Driver 5Vdc
**HL**: Line Driver 5~26Vdc

## ELECTRICAL CONNECTION