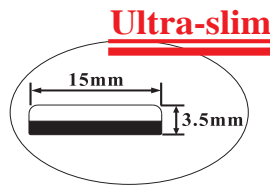


# Micro-sized Flat Photo Sensor

# PK5

## ◆ Characteristic / 特點 :

- Ultra slim body(only 3.5mm thickness). Easy to be mounted.  
/ 超薄體積(3.5mm), 容易安裝。
- Application : Narrow space sensing.  
/ 適合狹小空間檢測物體。
- Visible focused lightn, easy for recognition.  
/ 光點集中, 方便識別。

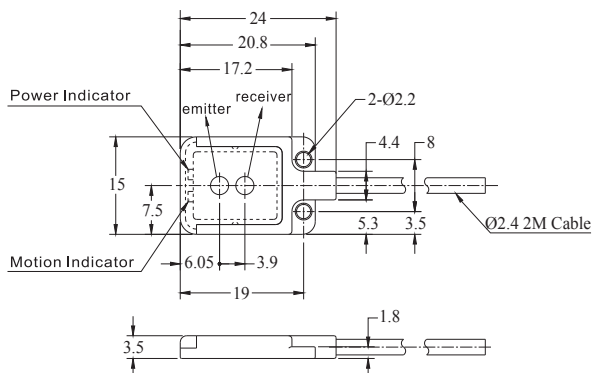


## ◆ Specifications / 規格表 :

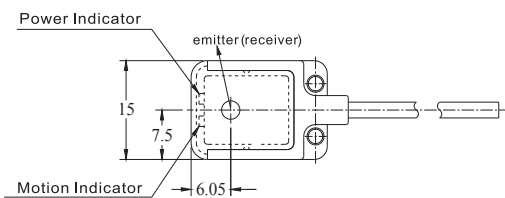
| Model / 型號                      | PK5-DU03N  | PK5-F05N  | PK5-1N   |
|---------------------------------|--|---|--|
|                                 | PK5-DU03P  | PK5-F05P  | PK5-1P   |
| Sensing type / 檢出方式             | Diffuse reflection<br>/ 擴散反射式  | Diffuse reflection (small spot<br>from LED Red light)<br>/ 擴散反射式(紅光小光點) | Through beam / 對照式   |
| Sensing distance / 檢出距離         | 3 cm, 白板 100x100mm   | 5 cm, 白板 100x100mm  | 1M   |
| Emitting light / 發光源            | Red LED 632 nm   |   | Infrared LED 940nm   |
| Operating voltage / 工作電壓        | DC12 ~ 24 V±10% (Ripple P-P : 10% Max.)  |   |  |
| Current Consumption / 消耗電流      | 15 mA Max.   |   |  |
| Load current / 負載電流             | 100mA Max. at DC24V  |   |  |
| Output type / 輸出模式              | <input type="checkbox"/> N : NPN L.on<br><input type="checkbox"/> P : PNP L.on       |   | <input type="checkbox"/> N : NPN D.on<br><input type="checkbox"/> P : PNP D.on |
| Protection circuit / 保護電路       | Reversed supply circuit protection, short circuit protection output<br>電源反接保護及輸出短路保護 |   |  |
| Response time / 反應時間            | 0.5 ms Max.  |   |  |
| Insulation resistance / 隔離阻抗    | 20MΩ min. (DC500V)   |   |  |
| Voltage withstandability / 絕緣耐壓 | AC1000V 60Hz for 60 Sec.   |   |  |
| Operating temperature / 工作時溫度   | -10°C ~ +45°C (No freezing allowed不可結霜,結冰)   |   |  |
| Ambient humidity / 工作時溼度        | 35% ~ 85% RH 相對溼度  |   |  |
| Storage temperature / 儲存時溫度     | -10°C ~ +55°C (No freezing allowed不可結霜,結冰)   |   |  |
| Storage humidity / 儲存時溼度        | 35% ~ 95% RH 相對溼度  |   |  |
| Protection degree / 防水等級        | IP64   | IP65  | IP64   |
| Material / 外觀材質                 | ABS  |   |  |
| Wiring method / 出線方式            | Ø2.4 x 2 M / 3-wires   |   | (Receiver) Ø2.4 x 2 M / 3-wires /<br>(Emitter) Ø2.4 x 2 M / 2-wires            |
| Option / 選購配件 (Page 252)        | Bracket / 固定架 : PK5/PM6 Mounting Bracket   |   |  |
| Weight / 重量                     | Approx.20g   |   | Approx.40g   |

## ◆ Dimensions / 尺寸圖 : (unit:mm)

### • PK5-DU03N/P



### • PK5-1N/P



### • PK5-F05N/P

