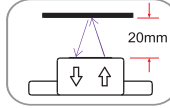


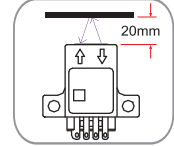
## ◆ Characteristic / 特點 :

- Front surface/ Top surface sensing models available.  
/ 多種檢測方式：上方感應、前方感應。
- Sensing distance up to 20mm.  
/ 長距檢測距離20mm。
- Light ON/ Dark ON selectable.  
/ 入光動作/遮光動作 可選擇。

▶ 10x10cm Black non-glossy paper



▶ 10x10cm Black non-glossy paper

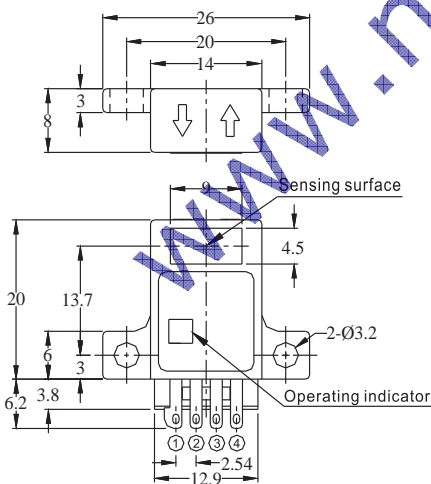


## ◆ Specifications / 規格表 :

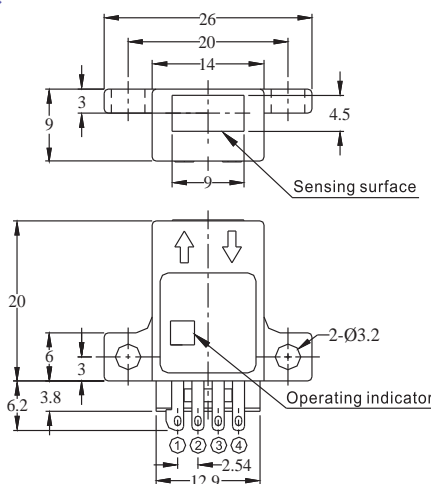
Model / 型號	SPR-401-N	SPR-401-P	SPR-402-N	SPR-402-P
Sensing type / 檢出方式	Diffuse Reflection / 擴散反射式			
Sensing distance / 檢出距離	20mm 10x10cm Black non-glossy paper / 黑紙 10x10cm			
Emitting light / 發光源	Infrared LED 940 nm			
Operating voltage / 工作電壓	DC12 ~ 24 V			
Current Consumption / 消耗電流	25 mA Max.			
Load current / 負載電流	100mA Max. at DC24V			
Output type / 輸出模式	NPN L.on/D.on	PNP L.on/D.on	NPN L.on/D.on	PNP L.on/D.on
Response time / 反應時間	1 ms Max.			
Insulation resistance / 隔離阻抗	20MΩ min. (DC500V)			
Voltage withstandability / 絕緣耐壓	AC1000V 60Hz for 60 Sec.			
Operating temperature/工作溫度	-20 °C ~ +45 °C			
Ambient humidity / 工作溼度	35% ~ 85% RH			
Material / 外觀材質	PC			
Option / 選購配件 (Page 256)	EE-1001 / RE-1006-PVC-2M			
Weight / 重量	Approx. 3g			

## ◆ Dimensions / 尺寸圖 : (unit:mm)

• SPR-401-N/P



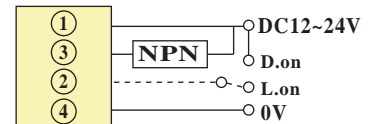
• SPR-402-N/P



## ◆ Wiring diagrams / 接線圖 :

### NPN Output

Pin fitting			
①	②	③	④
+	L	OUT	-



### PNP Output

Pin fitting			
①	②	③	④
+	L	OUT	-

