

### ◆ Characteristic / 特點 :

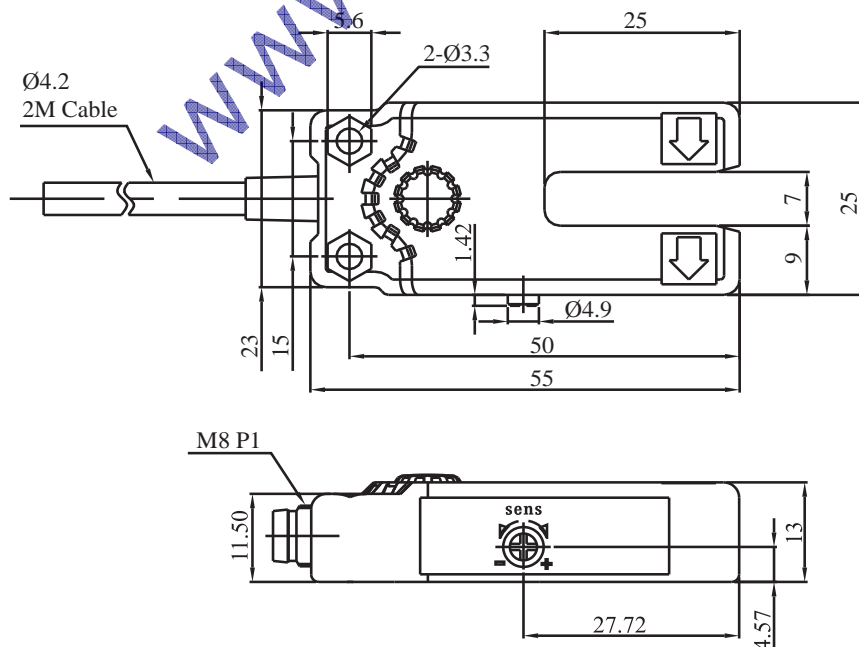
- Sensing distance 7mm.  
/ U型寬幅7mm，檢出範圍大。
- Bright LED output indicator. / 高亮度LED動作燈。
- Sensitivity adjustment 12-turn potentiometer (VR).  
/ 多轉式(12轉)VR調整，檢出更方便。
- Visible red light detection application : Address reading and cut mark sensing.  
/ 可見紅光檢出，適合位置讀取，記號點檢知。



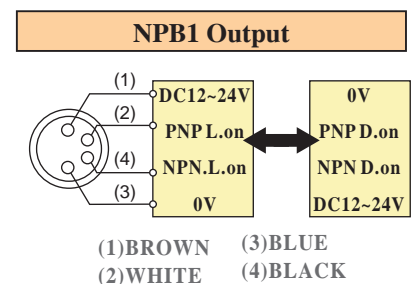
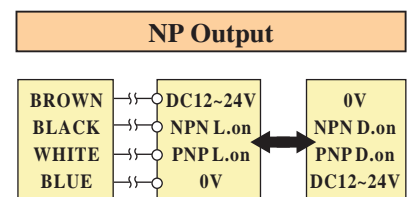
### ◆ Specifications / 規格表 :

Model / 型號	NPN D.on	SU07-N	SU07-ND1
	PNP D.on	SU07-P	SU07-PD1
	NPN L.on/D.on PNP L.on/D.on	SU07-NP	SU07-NPB1
Sensing distance / 檢出距離	7 mm		
Min. detection object / 最小檢測物	Opaque / 非透明體 ( Ø0.5 x 10.0mm )		
Emitting light / 發光源	Red LED 660 nm		
Operating voltage / 工作電壓	DC12 ~ 24 V		
Current Consumption / 消耗電流	18 mA Max.		
Load current / 負載電流	100mA Max. at DC24V		
Response time / 反應時間	1 ms Max.		
Ambient illumination/使用環境光源	Incandescent light / 白光 : 1,000 lux max.		
Insulation resistance / 隔離阻抗	20M Ω min. (DC500V)		
Voltage withstandability / 絕緣耐壓	AC500V 60Hz for 60 Sec.		
Operating temperature/工作溫度範圍	-10°C ~ + 55°C		
Ambient humidity/溼度範圍	35% ~ 85% RH 相對溼度		
Protection degree / 防水等級	IP64		
Vibration resistance / 耐震頻率	1.5 mm peak to peak amplitude, 10 to 55 Hz, 2 hours in X,Y and z directions		
Shock resistance / 耐震度	50 G repeated 10 times each in X,Y and Z directions		
Material / 外觀材質	PC		
Wiring method / 出線方式	NP : Pre-wired Ø4.2 x 2 M / 3-wires NP : Pre-wired Ø4.2 x 2 M / 4-wires		M8 connector / M8 接頭式
Weight / 重量	Approx.65g		Approx.25g

### ◆ Dimensions / 尺寸圖 : (unit:mm)



### ◆ Wiring diagrams / 接線圖 :



## ◆ Timing chart / 時序圖 :

NPN/ PNP/ NP Type

No. of optical axes/model	Operation mode	Timing charts
SU07-N SU07-ND1 SU07-P SU07-PD1 SU07-NP SU07-NPB1	Dark ON	<p>Incident light No incident light</p> <p>Operation indicator (red) ON</p> <p>Control output ON</p> <p>Output transistor OFF</p> <p>Load (e.g., relay) Operate</p>

NP Type

No. of optical axes/model	Operation mode	Timing charts
SU07-NP SU07-NPB1	Light ON	<p>Incident light No incident light</p> <p>Operation indicator (red) OFF</p> <p>Control output ON</p> <p>Output transistor OFF</p> <p>Load (e.g., relay) Operate</p>

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