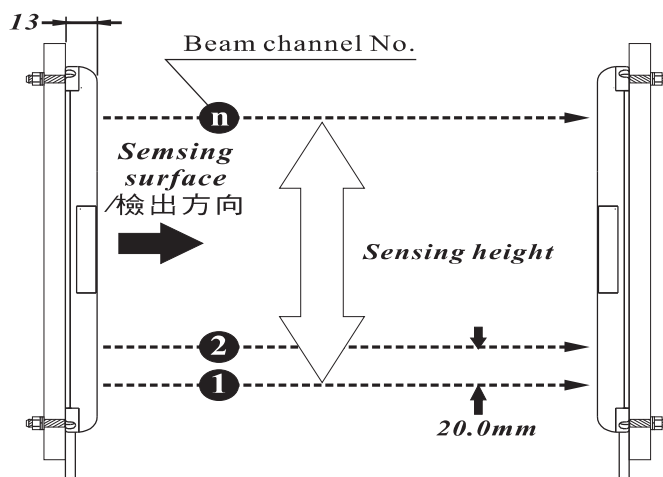
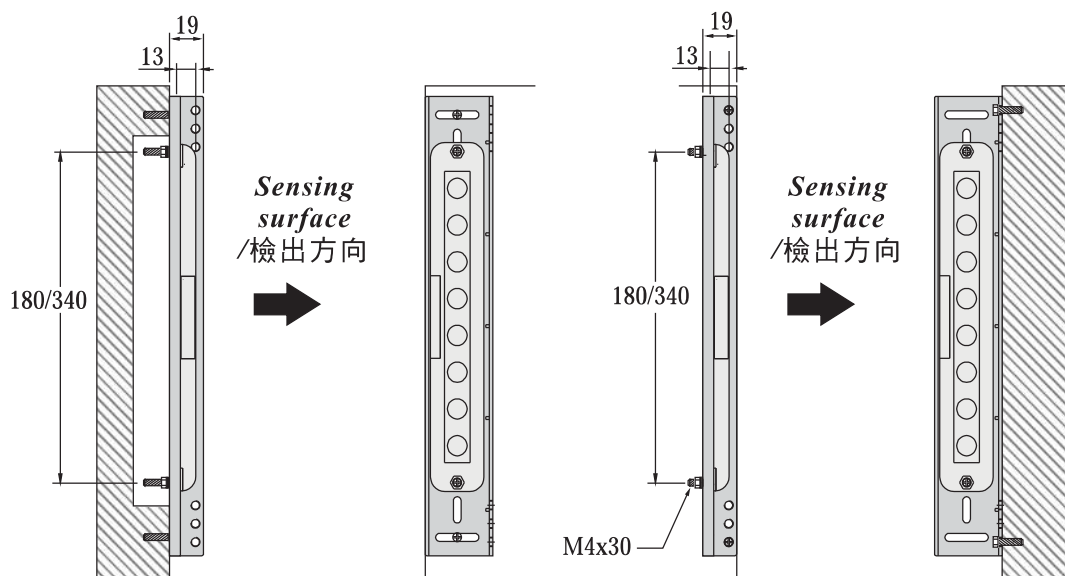


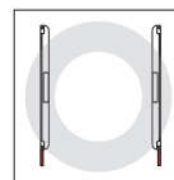
◆ Mounting / 安裝方式：



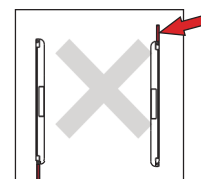
◆ OAP-Bracket Mounting / OAP固定架安裝方式：



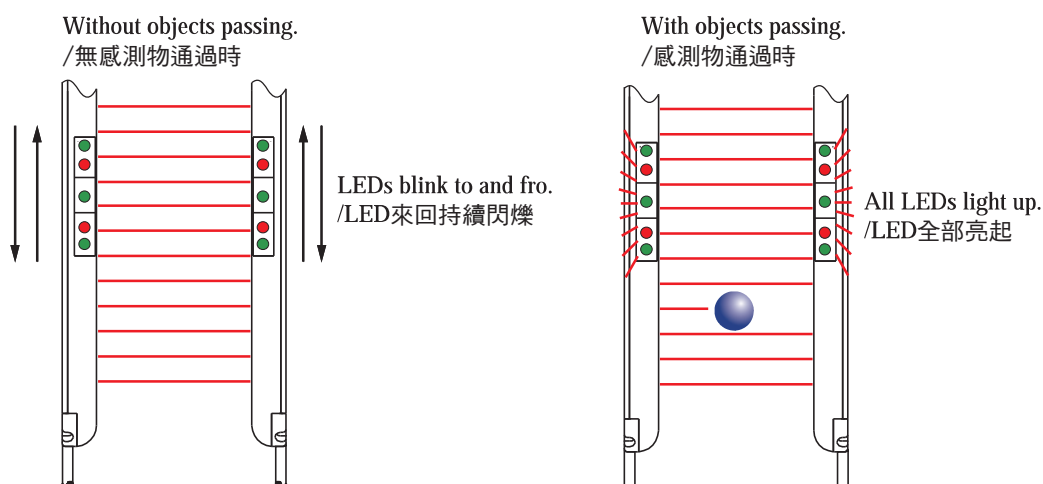
Correct/正確



Wrong/錯誤



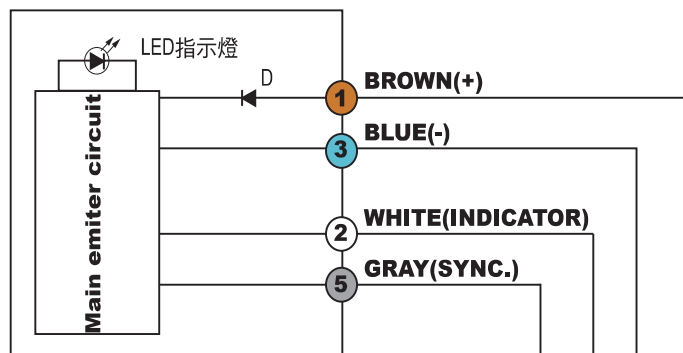
◆ Indicator / 指示燈：



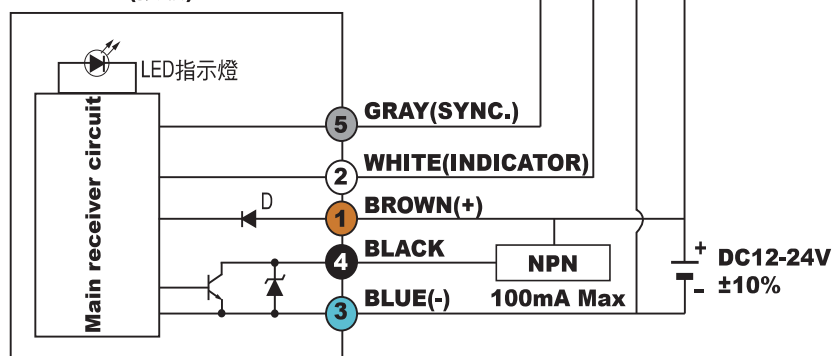
Model	Without objects passing.	With objects passing.
OAP-2008	5 LEDs blink to and fro (from top to bottom). (Green, Red, Green, Red, Green)	All 5 LEDs light up. (Green, Red, Green, Red, Green)
OAP-2016	7 LEDs blink to and fro (from top to bottom). (Green, Red, Green, Red, Green, Red, Green)	All 7 LEDs light up. (Green, Red, Green, Red, Green, Red, Green)

◆ I/O Circuit Diagram / 接線圖：

Emitter(發射)



Receiver(接收)

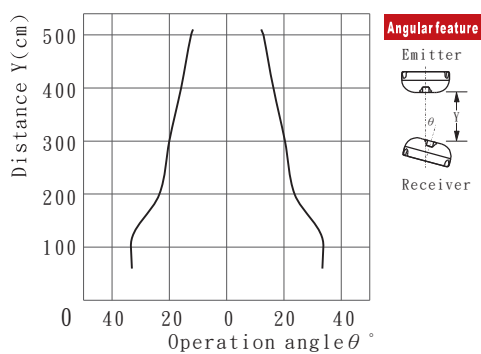


LOAD/ 負載
NPN open collector output.
Max current 100mA.
supplying voltage DC12~24V.

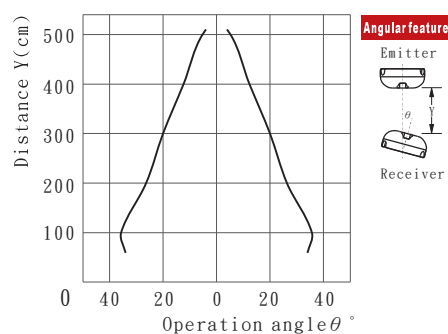
NPN最開放集極電路
最大輸出電流100mA
供應電壓DC12~24V

◆ Engineering data / 工程數據：

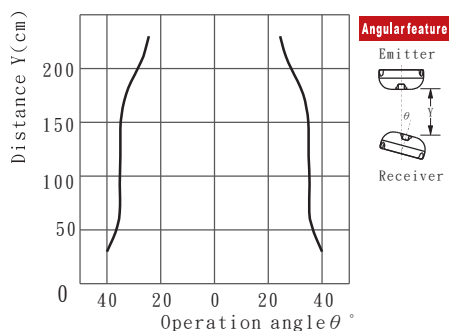
OAP-2008-□ Angular deviation



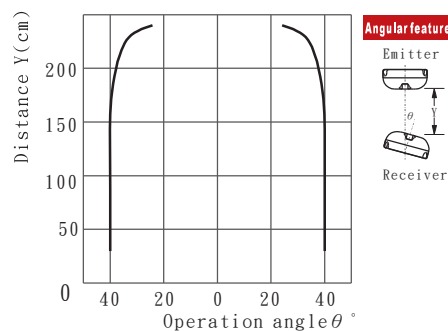
OAP-2016-□ Angular deviation



OAP-2008S-□ Angular deviation



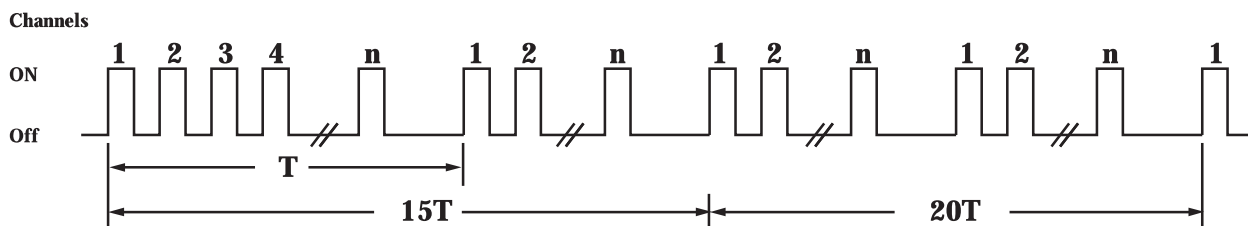
OAP-2016S- □Angular deviation



◆ Timer chart / 時序圖：

• OAP-2008-□

Emitter

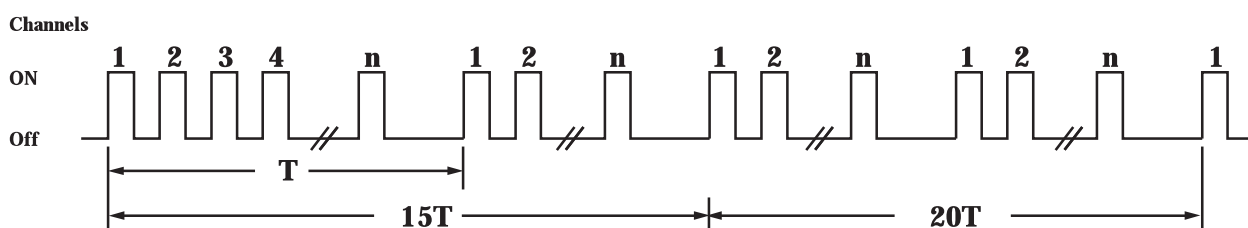


Receiver

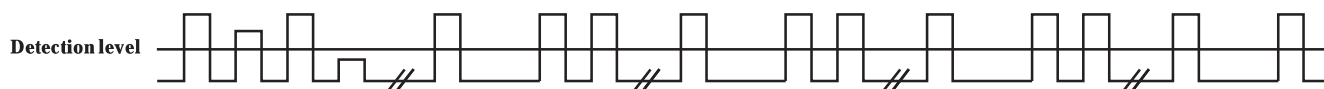


• OAP-2016-□

Emitter



Receiver



◆ Attention / 注意事項：

⚠ Warning1 / 警告1

This product is not permitted to use with the machines which are not stopped electronically by electronic control. /不可使用於無立即停止電子控制式的機器。

⚠ Warning2 / 警告2

Be sure to set some amount of safe distance between the sensor and dangerous point.
/在感應器及危險區域間，必須保持安全距離。

- Safe distance (D) formula. Min distance is 150mm.
/安全距離(D)公式。最短距離150mm。

$$D = 2000 \times T + \alpha \quad (D \leq 500\text{mm})$$

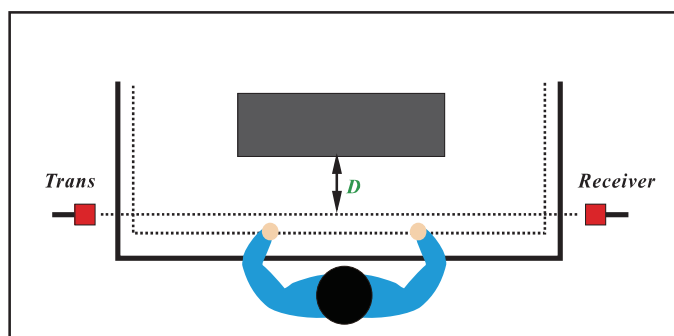
$$D = 1600 \times T + \alpha \quad (D > 500\text{mm})$$

$$D = \text{safe distance (mm)}$$

$$T = \text{response time (machine+sensor)}$$

$$\text{反應時間} = (\text{機器的反應時間} + \text{感應器的反應時間})$$

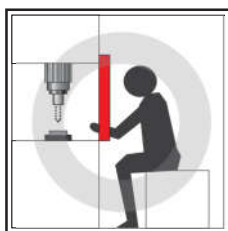
$$\alpha = 90\text{mm}$$



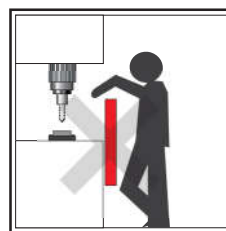
⚠ Warning3 / 警告3

Let worker keep working through the detecting range.
/在感測範圍內進行工作。

◆ Correct/正確

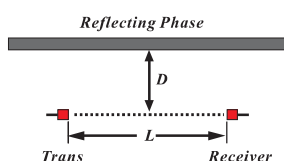
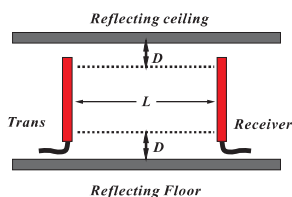


◆ Wrong/錯誤



⚠ Warning4 / 警告4

When installing, please think of other reflecting object which may cause malfunction.
/安裝時，考慮是否有其它會導致機能故障的反射物。



Acceptable installation distance

/可接受的安裝範圍

$$D \geq 150\text{mm}$$

$$L = 0.3 \sim 5\text{M}$$