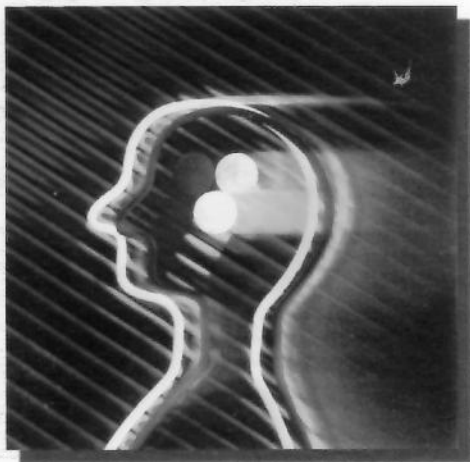




FOTEK

EASY TO SET

SENSITIVITY & EMITTING
AUTOTUNNING

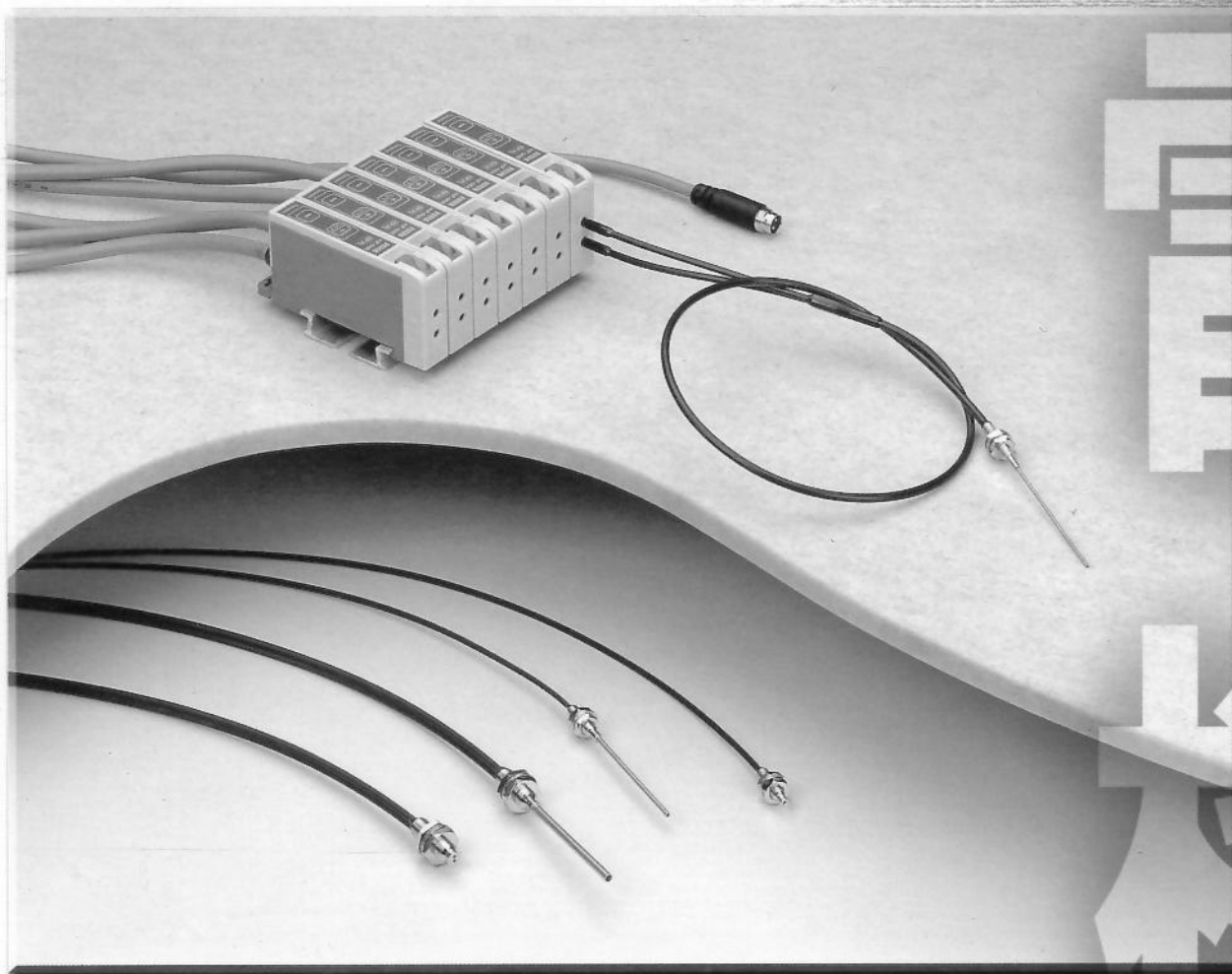
PERFORMANCE

NPN/PNP TWO OUTPUT

NO/NC CHANGEABLE

OUTPUT OFF DELAY OPTIONED

mf
FIBER
SENSOR
2002



陽明電機股份有限公司
FOTEK CONTROLS CO., LTD.

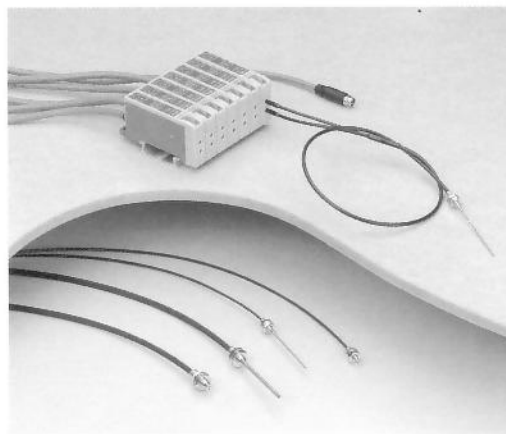
※ High speed response time: 0.2 ms
高速應答: 0.2 ms

※ AUTOTUNNING of SENSITIVITY & EMITTING STRENGTH
Easy to finish the OPTIMUM SETTING condition.
感度 & 發射強度自動設定: 容易完成最佳設定狀態

※ OUTPUT OFF DELAY : 0.1s (optioned)
輸出復歸延遲: 0.1s (選用)

※ DARK ON / LIGHT ON CHANGEABLE
遮光動作 / 入光動作 可切換

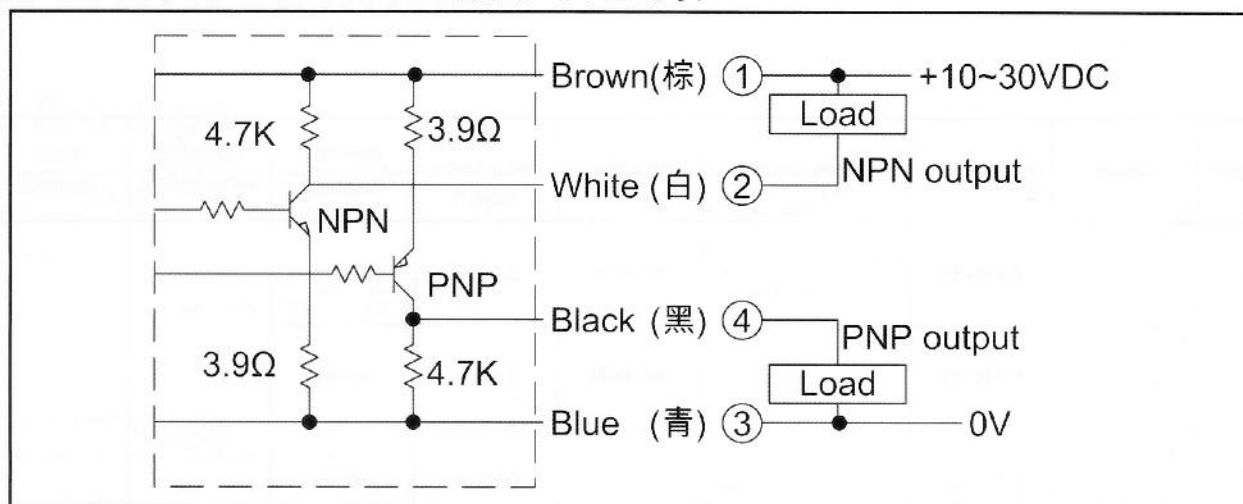
※ NPN & PNP TWO OUTPUT
NPN & PNP 雙輸出



■ SPECIFICATION / 規格

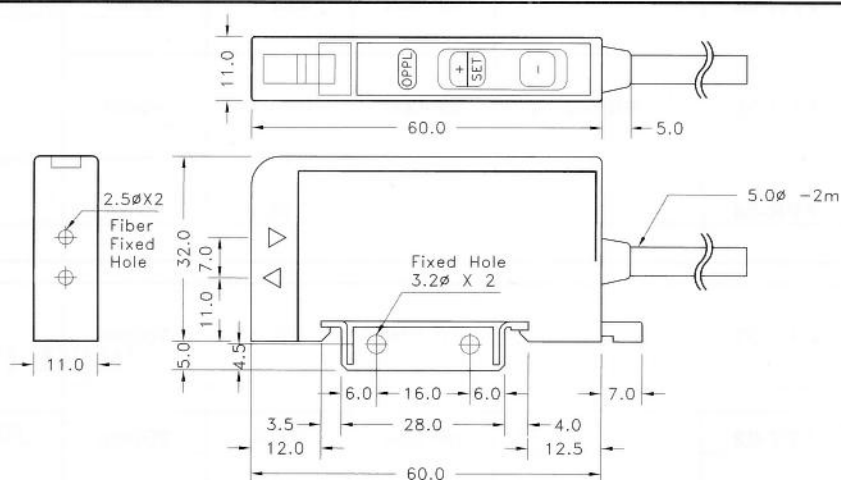
TYPE 型式		LEAD WIRE 出線式		LEAD WIRE CONNECTOR 出線頭接式	
Model	型號	mF-06R	mF-06RT	mF-06R-M8	mF-06RT-M8
Output delay	輸出延遲	None	0.1s	None	0.1s
Response time	應答時間	0.2ms			
Emitter	發射光源	High efficiency Red LED			
Operating voltage	工作電壓	10-30 VDC;Ripple < 20% of peak to peak			
Current consumption	耗電流	45 mA max.			
Output method	輸出方式	NPN & PNP two output			
Output status	輸出狀態	NO / NC changeable			
Output current	輸出電流	150 mA max.			
Leakage current	漏電流	0.8 mA max.			
Residual voltage	殘留電壓	0.8 V max.			
Protection circuit	保護電路	SHORT CIRCUIT & POLARITY REVERSED PROTECTION			
Connection method	接線方式	4 C/5.0Ø X 2m		M8 Lead wire connector	
Housing material	外殼材質	Intensive ABS			
Protection class	保護等級	IP-65			
Circumstance	工作環境	-20 ℃ ~+ 60 ℃ ; 35 ~ 85 % RH			

Output Circuit/輸出迴路

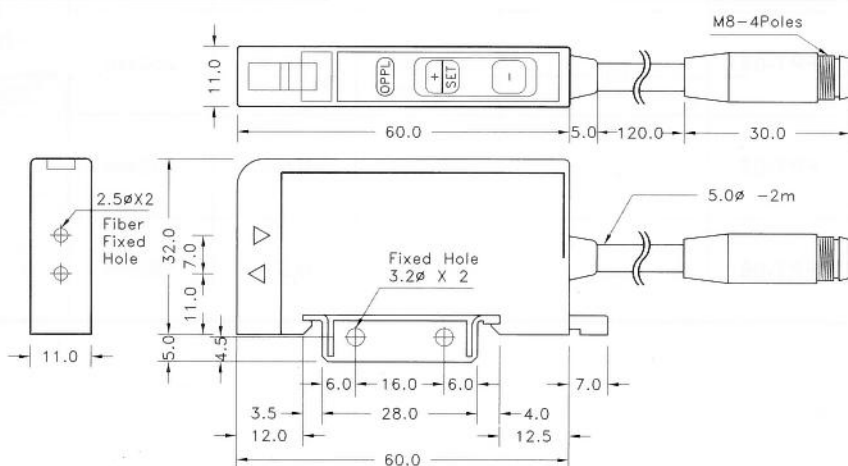


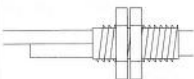
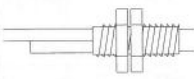
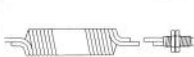
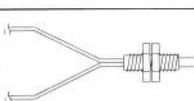
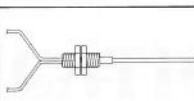
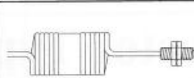
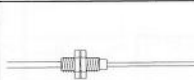
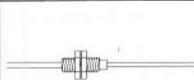
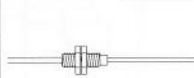
Dimension/尺寸圖

Lead Wire Type



Lead Wire Connector Type



Type	Mode	Model	Fiber shape	Amplifier	Min. detectable object	Sensing distance	Operating temperature	Fiber material
Relflex Type	M6 1.0 $\varnothing$ X 2	FPR-51		mF-06R	0.03 $\varnothing$	65mm	-40°C +70°C	Poly-plasctic
	M6 1.0 $\varnothing$ X 1 0.25 $\varnothing$ X 15	FPR-52		mF-06R	0.03 $\varnothing$	65mm		
	M6 1.0 $\varnothing$ X 2	FPR-53		mF-06R	0.03 $\varnothing$	30mm		
	M6 0.5 $\varnothing$ X 2	FPR-54		mF-06R	0.03 $\varnothing$	45mm		
	M6 1.0 $\varnothing$ X 2	FPR-55		mF-06R	0.03 $\varnothing$	65mm		
	M4 0.5 $\varnothing$ X 2	FPR-56		mF-06R	0.03 $\varnothing$	45mm		
	M4 0.5 $\varnothing$ X 2	FPR-58		mF-06R	0.03 $\varnothing$	45mm		
Thru Beam Type	M4 0.5 $\varnothing$ X 1	FPT-01		mF-06R	0.5 $\varnothing$	100mm	-40°C +70°C	Poly-plasctic
	M4 1.0 $\varnothing$ X 1	FPT-02		mF-06R	0.5 $\varnothing$	300mm		
	M4 1.0 $\varnothing$ X 1	FPT-03		mF-06R	0.5 $\varnothing$	100mm		
	M4 1.0 $\varnothing$ X 1	FPT-04		mF-06R	0.5 $\varnothing$	250mm		
	M4 0.5 $\varnothing$ X 1	FPT-05		mF-06R	0.5 $\varnothing$	250mm		
	M3 0.5 $\varnothing$ X 1	FPT-06		mF-06R	0.5 $\varnothing$	150mm		

Dimension

Reflex Type

FPR-51	FPR-52	FPR-53
FPR-54	FPR-55	FPR-56
FPR-58		

Thru Beam Type

FPT-01	FPT-02	FPT-03
FPT-04	FPT-05	FPT-06

SETTING OF SENSITIVITY/ 感度設定

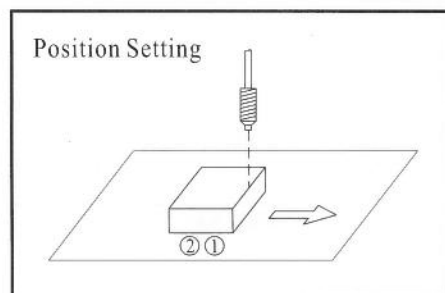
REFLEX TYPE/ 直接反射型

SETTING OF POSITION/ 定位設定

Please keep on pressing the  key with the detected object
Until the LED "PL" flicks slowly.

Then press the  key again to finish the SETTING OF POSITION.
(LED "PL" & "OP" will be turned ON)

有被檢測物時，請按住  鍵直到 "PL" LED 慢閃，然後再按
 鍵，即可完成設定。["PL" & "OP" LED 都會亮起來]



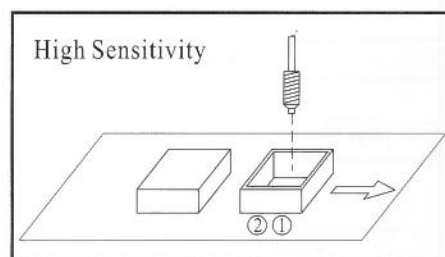
SETTING OF HIGH SENSITIVITY/ 高感度設定

Please keep on pressing the  key without the detected object
Until the LED "PL" flicks slowly,

Then press the  key again to finish the setting.

(LED "PL" will be turned ON, LED "OP" will be turned OFF)

無被檢測物時，請按住  鍵直到 "PL" LED 慢閃，然後再按
 鍵，即可完成設定。["PL" LED 會亮起來，"OP" LED 會熄掉]



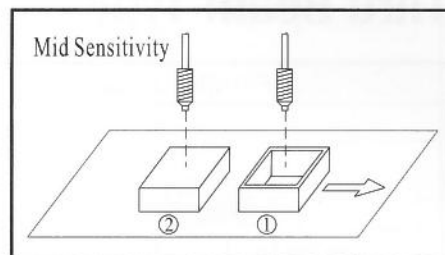
SETTING OF MID SENSITIVITY/ 中感度設定

Please keep on pressing the  key without the detected object
Until the LED "PL" flicks slowly,

Then press the  key again with the detected object

To finish the setting. (LED "PL" & "OP" will be turned ON)

無被檢測物時，請按住  鍵直到 "PL" LED 慢閃，然後有檢測物
時，再按  鍵，即可完成設定。["PL" & "OP" LED 都會亮起來]



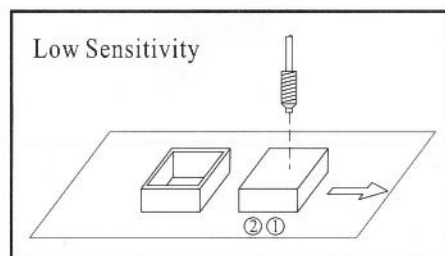
SETTING OF LOW SENSITIVITY/ 低感度設定

Please keep on pressing the  key with the detected object
Until the LED "PL" flicks slowly.

Then press the  key again with the detected object

To finish the setting. (LED "PL" & "OP" will be turned ON)

有被檢測物時，請按住  鍵直到 "PL" LED 慢閃，然後再按
 鍵，即可完成設定。["PL" & "OP" LED 都會亮起來]



■ THRU BEAM TYPE/透過型

SETTING OF HIGH SENSITIVITY/高感度設定

Please keep on press the  key without the detected object

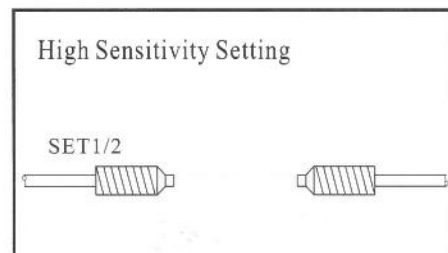
Until the LED "PL" flicks slowly,

Then press the  key again to finish the setting.

(LED "PL" & "OP" will be turned ON)

無被檢測物時，請按住  鍵直到 "PL" LED 慢閃，然後再按

 鍵，即可完成設定。["PL" & "OP" LED 都會亮起來]



SETTING OF MID SENSITIVITY/中感度設定

Please keep on press the  key with the detected object

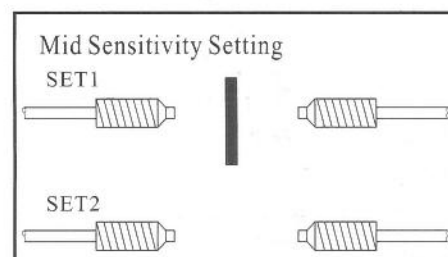
Until the LED "PL" flicks slowly,

Then press the  key again without the detected object

To finish the setting. (LED "PL" & "OP" will be turned ON)

有被檢測物時，請按住  鍵直到 "PL" LED 慢閃，移開被檢測物後

再按  鍵，即可完成設定。["PL" & "OP" LED 都會亮起來]



SETTING OF LOW SENSITIVITY/低感度設定

Please keep on press the  key with the detected object

Until the LED "PL" flicks slowly,

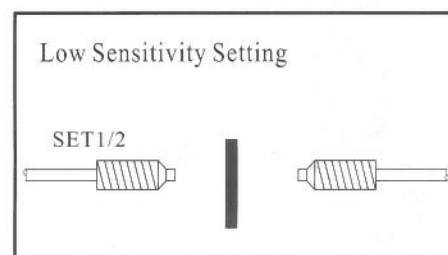
Then press the  key again with the detected object

To finish the setting.

(LED "PL" will be turned ON, LED "OP" will be turned OFF)

有被檢測，物時請按住  鍵直到 "PL" LED 慢閃，然後再按

 鍵，即可完成設定。["PL" LED 會亮起來，"OP" LED 會熄掉]



REMARKS/備註

1> IF LED "PL" flicks fast after finishing setting, It is the maximal sensitivity condition.

如果完成設定 "PL" LED 快閃，表示完成最大感度設定。

2> On the detecting condition if pressing the  key may add the sensitivity or

Press the  key may reduce the sensitivity.

在檢測狀態，按  鍵可增加感度/按  鍵可減弱感度。

3> To change the output status please keep on pressing the  key and pressing the  key
To change the output status.

(If keep on pressing the  over 3 sec will enter to the setting condition)

如果要改變輸出狀態，請按住  鍵然後再按  鍵即可改變輸出狀態。

(注意，不要按  超過3秒，否則會進入感度設定狀態)

4> On the detecting status. LED "PL" is the pilot of stability.

在檢測狀態，"PL" LED 是穩定指示燈。



FOTEK[®]
CONTROLS

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FOTEK CONTROLS CO., LTD.

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