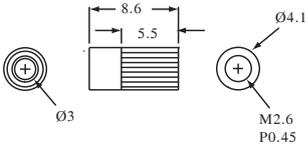
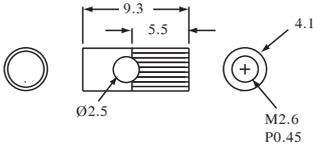
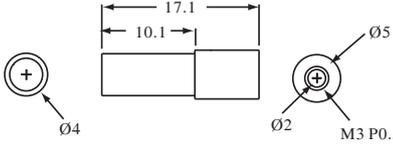
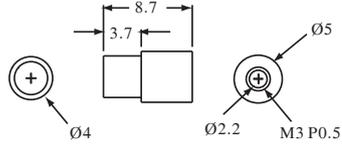
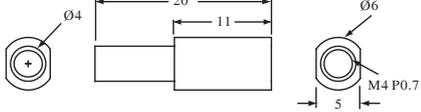
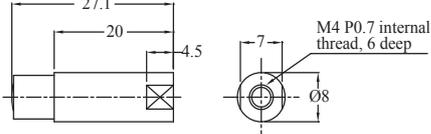
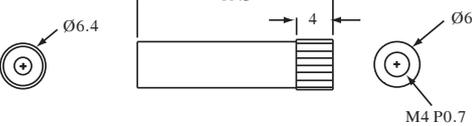
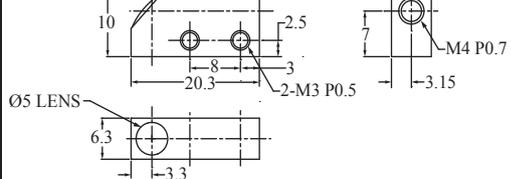
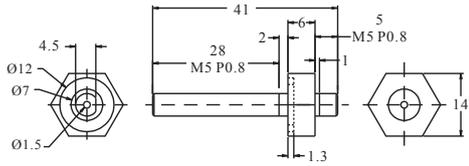
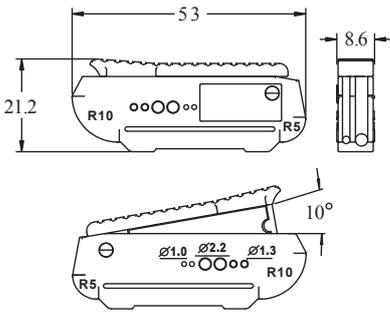


Accessories / 配件

LENS / 聚焦鏡

Product	Dimensions	Product	Dimensions
FL-M02 	 <p>PT fiber type Scanning distance is increased 4 times if this FL-M02 unit is attached to the light emitter and receiver of a thru - scan fiber unit.</p>	FLS-M02 	 <p>PT-410 unit can be changed to aside view type by attaching this unit to the light emitter or receiver of fiber unit.</p>
FL-M03 	 <p>Light converges to a spot diameter of 0.5mm if this unit is attached to a fiber unit at a distance of 8mm.</p>	FL-M03-1 	 <p>Light converges to a spot diameter of 2mm if this unit is attached to a fiber unit at a distance of 8mm.</p>
FL-M04 	 <p>Light converges to a spot diameter of 0.7mm if this unit is attached to a fiber unit at a distance of 10mm.</p>	FL-M04-1 	 <p>Light converges to a spot diameter of 0.7 to 2.0 mm if this unit is attached to a fiber unit at a distance of 18.5 to 43 mm.</p>
FL-M06 	 <p>FTX-410 Scanning distance is increased 8 times if this unit is attached to the light emitter and receiver of a thru - scan fiber unit.</p>	FLS-M04 	 <p>Light converges to a spot diameter of 0.5 to 3.0 mm if this unit is attached to a fiber unit at a distance of 13 to 30 mm.</p>
Heat resistant adapter / 高溫轉接頭		Fiber Cutter / 光纖切刀	
FTG015-05041 	 <ol style="list-style-type: none"> Suitable for High Temperature and Vacuum Environment Operating Temperature: -40°C ~ 250°C. Effective against Air under Vacuum Sensing. Connected to a Plastic Fiber Sensor Applied in High Temperature Environment. 	C5321 	

MCR Mecha-controller (dogs for photosensor)



- The combination of two dogs allows easy angle adjustment.
- Angle adjustment does not cause the other dog to turn.
- The detection dog has an angle of 180°. It can be cut off according to the specification.
- Dogs are securely locked in place by tightening the screws on the clasper after angle adjustment. This keeps the dogs from moving out of position.
- Angle adjustment can be carried out more precisely than the conventional fixed shaft method that uses set screws.

Mecha-controller specifications

Model No.	MCR
Angle adjustment range	0 to 360°
Quantity of jointed detection cams	1, 2, 3, 4, 5, 6
Mounting hole diameter	φ8, φ10, φ12
Detection cam fixing method	Side clamp type
Operating ambient temperature	5 to 50°C
Operating ambient humidity	85% or less (No condensation)

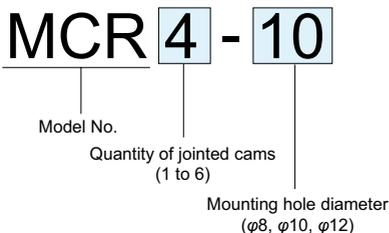
Sensor specifications NPN Type

Manufacturer	OMRON
Type	EE-SX673A/Connector EE-1001

* For details of the sensor, refer to C-98.

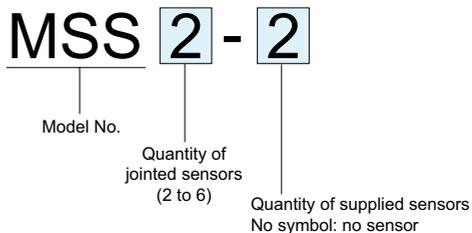
Mecha-controller

Product number



Sensor stay

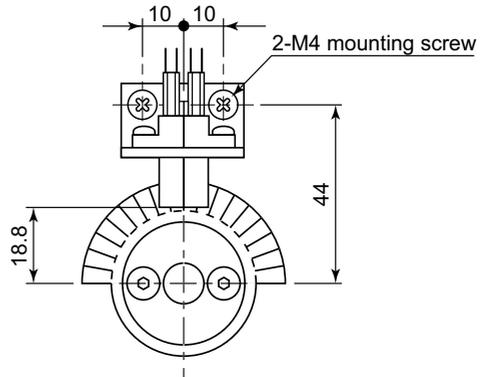
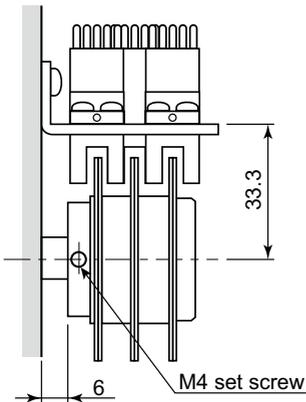
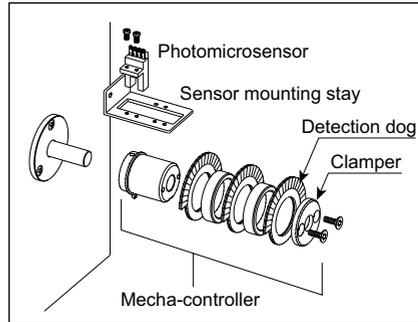
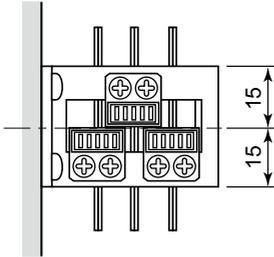
Product number





■ Drawing of a mounted unit

(mm)

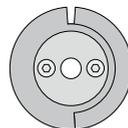


■ Precautions for selection

- Cams for mechanical valves that allow easy control of air devices are also available with a separate order.
- The sensor lights up when the light is blocked. Use the sensor in a circuit that outputs a signal when the light is blocked.

■ Example of use

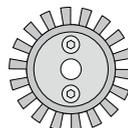
- This device has wide applications other than PPU's.



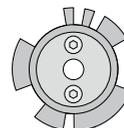
Slit for light entry



Light blocked



Counter

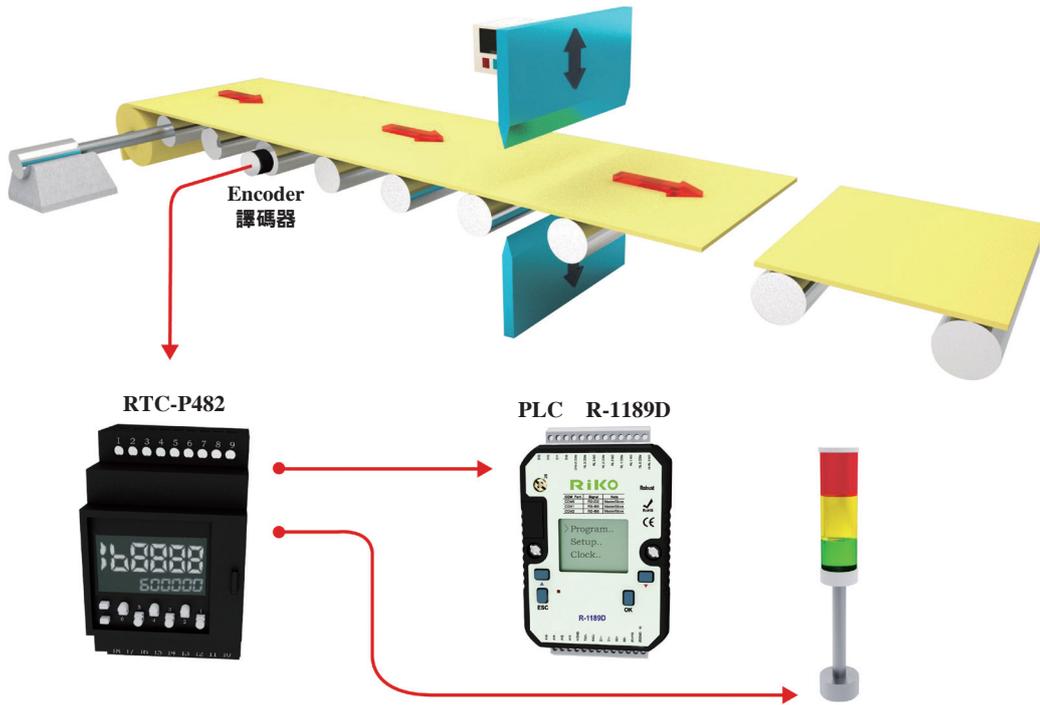


Timing

■ Precautions for use

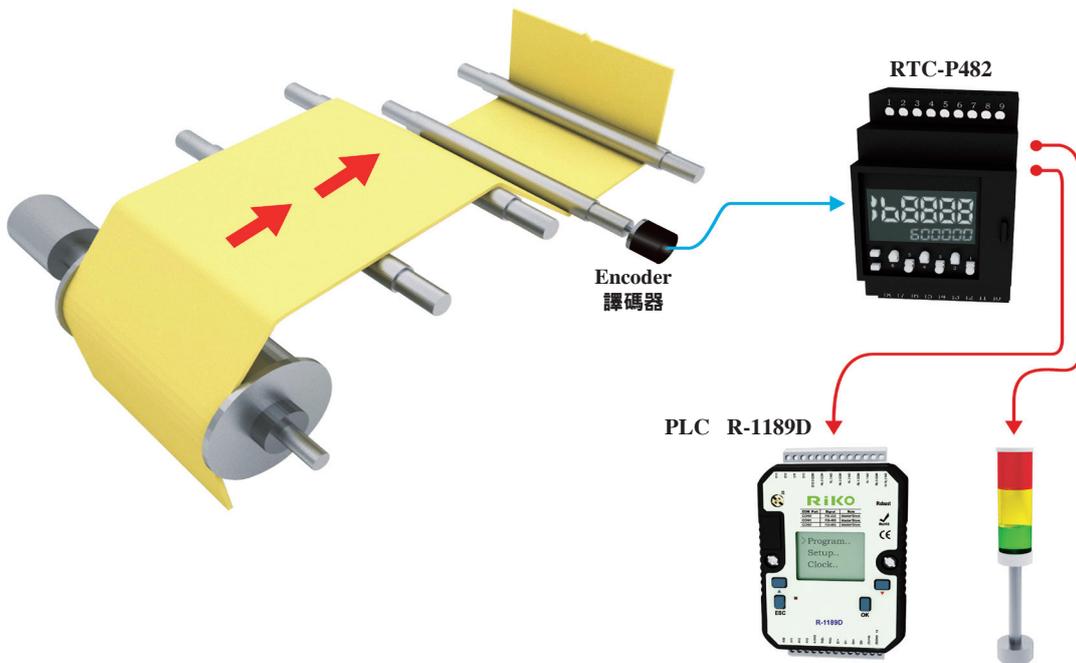
- After angle adjustment, be sure to tighten the clamper bolts before use.

S0011 Page 230 / Page 235 / Page 244



Basic control of convey.
簡易輸送控制

S0012 Page 230 / Page 235 / Page 244



Basic control of convey.
簡易輸送控制

◆ Characteristic / 特點 :

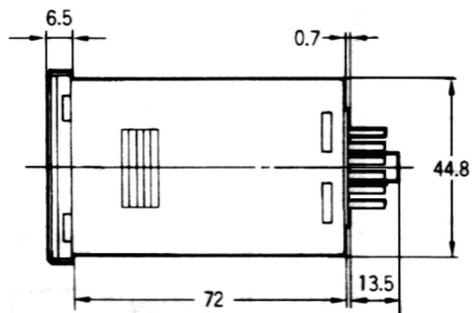
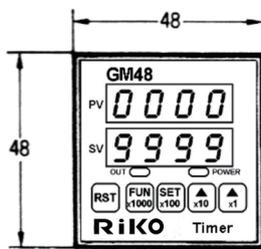
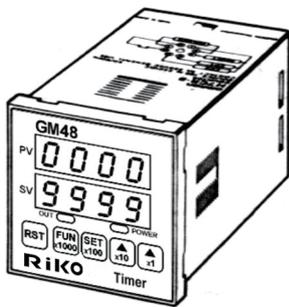
- Contact / transistor input. / 接點及晶體輸入。
- 4 timer range setting. / 4種時間範圍設定。
- 11pin type. / 11pin型式。
- 5 keys, easy to operate. / 面板5組按鍵，設定容易。
- 8 motion modes flexible manipulation. / 8種動作模態，使用更有彈性。
- LED display. / LED顯示器。
- Small dimension (48x48x92mm) easy to install. / 體積小(48x48x92mm)安裝容易。
- 12 VDC / 200mA power supply for the usage of external sensor. / 提供12 VDC / 200mA電源，供給外部SENSOR使用。



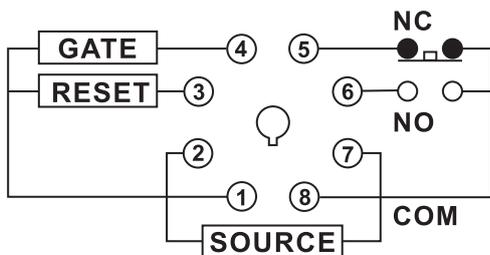
◆ Specifications / 規格表 :

Model / 型號	GM48-A	GM48-B	GM48-C
Input / 輸入	RESET, GATE	RESET, GATE	RESET, GATE, START
Motion mode / 動作模態	Power On Delay	4modes	8 modes
Pin / 接腳	8-Pin Round	8-Pin Round	14-Pin Round
Timer range / 時間範圍	0~99.99s 0~999.9s 0~99m59s 0~99h59m, 4modes		
	Fixed/固定	Adjustable/可設定	Adjustable/可設定
Operating voltage/ 電源	AC 90 ~ 260V 50/60Hz		
Display / 顯示器	LED 4 digits X 2 (Red, Green)		
Output / 輸出	RELAY 1C/ 1A AC250V		
Operating temperature / 工作時溫度	-10°C ~ +50°C (14 °F ~ 122 °F)		
Reset time / 斷電重置	0.5 Sec		
Weight / 重量	Approx.105g		

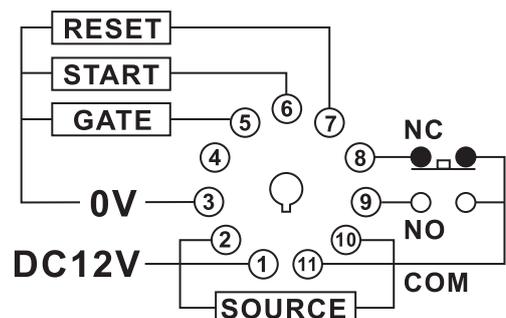
◆ Dimensions / 尺寸圖 : (unit:mm)



◆ GM48-A GM48-B Wiring diagrams / 配線圖 :



◆ GM48-C Wiring diagrams / 配線圖 :



◆ Characteristic/特點：

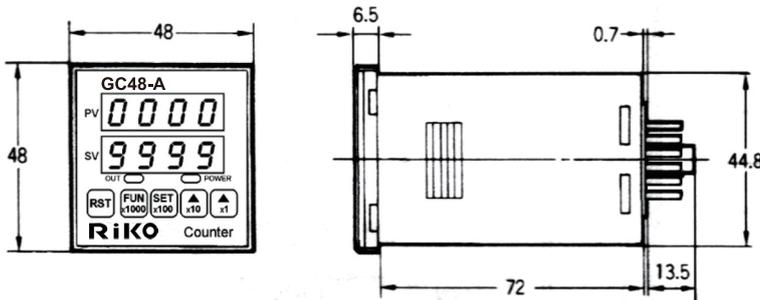
- Power failure memory. / 斷電記憶保持。
- 4 digits up and down counting function. / 四位數顯示，可往上或下計數。
- Counting speed 30/2K CPS. / 計數速度 30/2K CPS。
- 5 keys easy to operate. / 面板5組按鍵，設定容易。
- 8 output modes flexible manipulation. / 8種輸出模態，使用更有彈性。
- LED display. / LED顯示器。
- Small dimension (48x48x92mm) easy to install. / 體積小(48x48x92mm)安裝容易。
- 12 VDC / 200mA power supply for the usage of external sensor. / 提供12VDC 200mA電源，供給外部SENSOR使用。



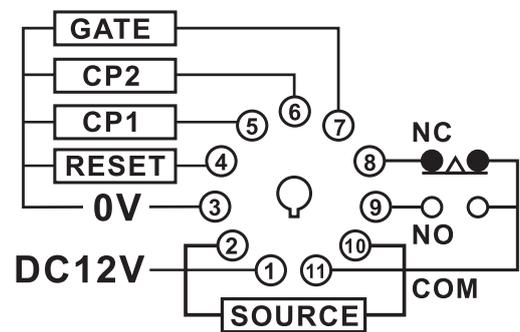
◆ Specifications / 規格表：

GC48-A Specifications/電氣規格			
Operating Voltage/電源	AC 90~260V 50/60Hz	Input mode/輸入模態	Up count/ 上數 Down count/ 下數
Display LED/顯示器	4 digits X 2 (Red, Green)	Output mode/輸出模態	0~7, 8 modes
External Input/外部輸入	RESET, CP1, CP2, GATE	Counting speed /計數速度	30 CPS 或 2K CPS
Output/輸出	RELAY 1C, 1A AC 250V	Counting range /計數範圍	0000~9999
Operating temperature /工作時溫度	-10°C~50°C (14°F~122°F)	Pin/接腳	11-Pin Round
Weight / 重量	Approx.115g		

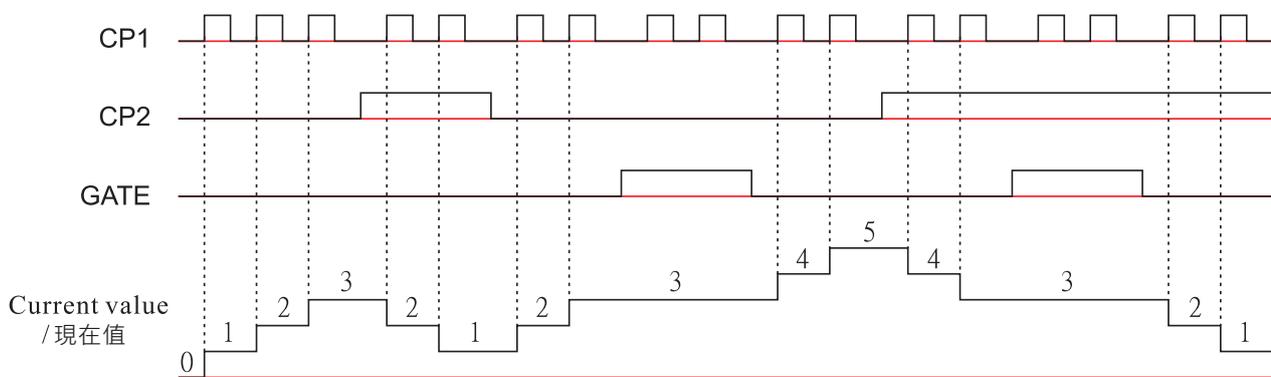
◆ Dimensions / 外型尺寸圖：(unit:mm)



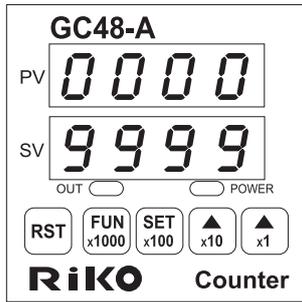
◆ Wiring diagrams / 接線圖：



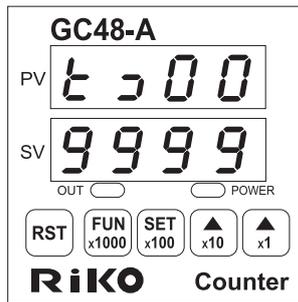
◆ Input Timing Chart / 輸入時序圖：



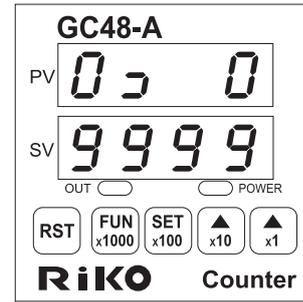
◆ Setting of "Output time" and "Output mode" / 設定"輸出時間"及"輸出模態"：



Picture 1/圖1



Picture 2/圖2



Picture 3/圖3

Press and hold on **FUN** x1000 key for 3 seconds. The display will transfer to **picture 2**. Release the key and enter the setting mode of "Output time".

按住 **FUN** x1000 鍵不放3秒後如<圖2>顯示並放開按鍵此時進入設定"輸出時間"模式

Note: The display will return to the normal timer condition, if press **SET** x100 key at any time or do not press any key for more than 3 seconds.

註:任何時間按下 **SET** x100 鍵或持續3秒沒有按任何按鍵則回到正常之計數模式

Press **FUN** x1000 key to enter the setting mode of "Output mode". The display will transfer to **picture 3**.

按下 **FUN** x1000 鍵後如<圖3>顯示並進入設定"輸出模態"

Press **▲** x1 key or **▲** x10 key to set the "output time" (0~ 9.9 seconds).

按下 **▲** x1 鍵或 **▲** x10 鍵設定"輸出時間",時間範圍為 0 ~ 9.9 秒.

Press **FUN** x1000 key to return back to the setting mode of "Output time". The display will transfer to **picture 2**.

按下 **FUN** x1000 鍵後如<圖2>顯示並回到設定"輸出時間"

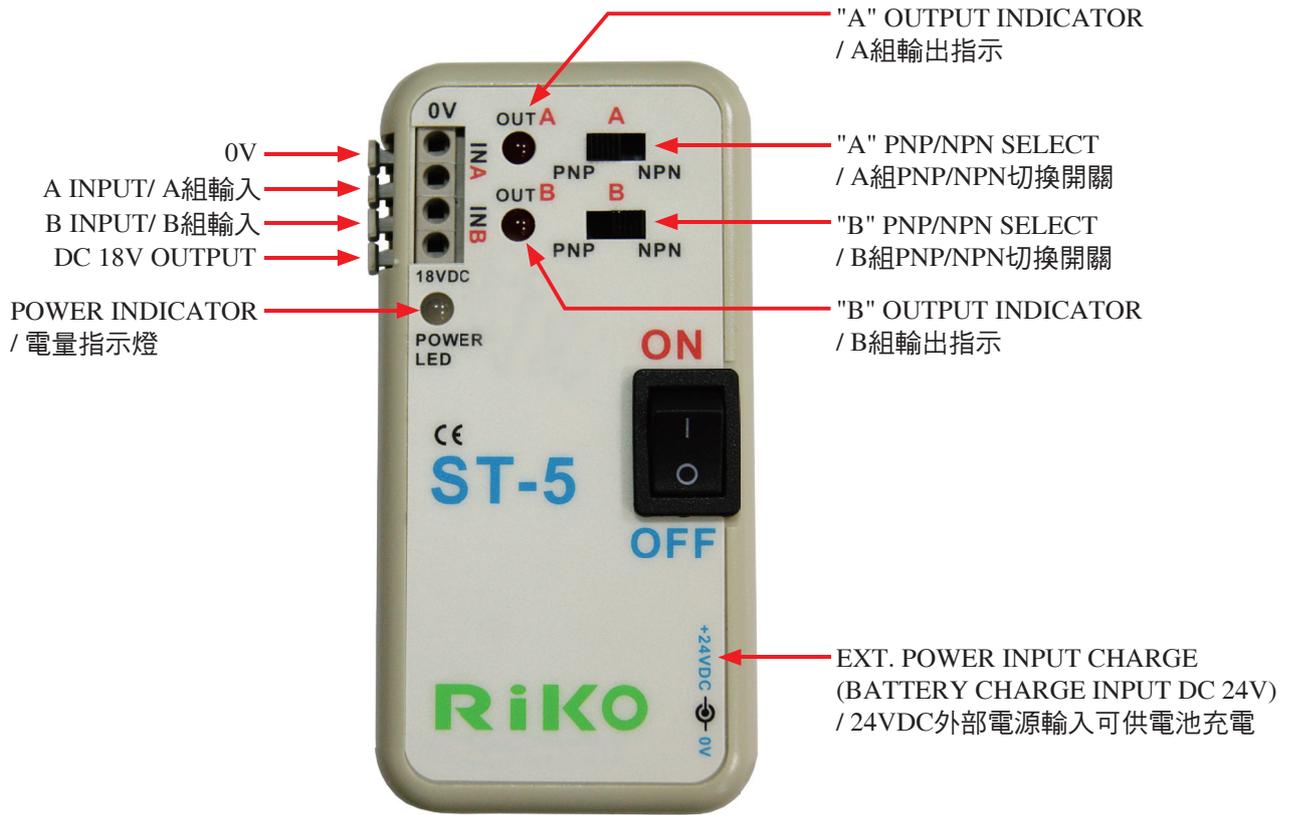
Press **▲** x1 key to set the "Output mode" (0-7 modes).

按下 **▲** x1 鍵設定"輸出模態"0 ~ 7組輸出模態

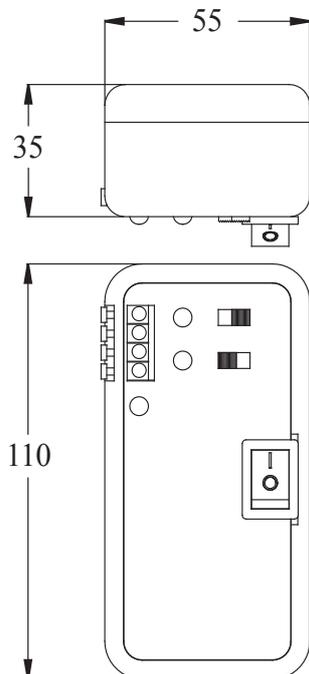
◆ Characteristic / 特性 :

- Used to check photoelectric and proximity sensor./ 可檢測光電開關與近接開關並供應18VDC給SENSOR使用。
- Two LED indicators and two select switches for NPN or PNP./ 提供二組NPN及PNP輸入測試。
- Use DC24V to recharge the battery ./ 可使用DC24V外部電源來進行電池充電。
- Automatic power off : If operator does not make any motion or detection after power-on, it will stop automatically after 5 minutes.Auto power off timer for saving power./ 省電裝置，開機後，5分鐘未動作，將會自動關閉。
- LED indicator blinks when low power./ 當電量不足時,指示燈會閃爍。
- Power source : DC24V or 18V Rechargeable battery ./ 使用電源為外部DC24V或內部一顆18V電池。

◆ Panel description / 功能位置 : (unit:mm)



◆ Dimensions / 尺寸圖 : (unit:mm)



◆ BATTERY CHARGER : GS18U24-P1J (OPTION)



Series	GS18U
Model	GS18U24-P1J
Dimension	79x54x33 mm
Power output	DC 24V 0.75A

◆ BATTERY : ST-5-B01

Lithium Polymer Rechargeable Battery.



60x30mm