

Capacitive Proximity Sensor

PKC

◆ Characteristic / 特點 :

- Stripped 3-color LED sensing indicator.
/ 條狀三色LED顯示感應強度。
- +/- buttons for sensitivity adjust.
/ 感度調整用(+)(-)鍵設定。
- Capacity sensor can detect metal or non-metal targets.
/ 靜電容可檢測金屬、非金屬(水、玻璃、塑膠、紙...等)。
- Patented anti-bending design.
/ 耐彎保護，包覆射出，跨時代設計。

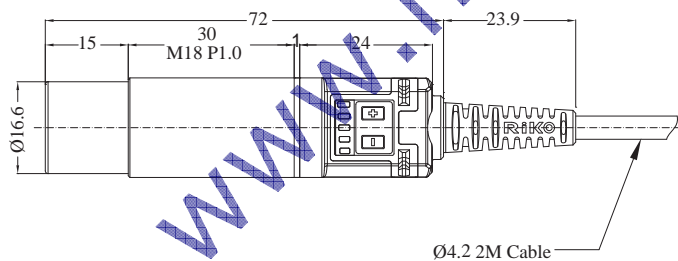


◆ Specifications / 規格表 :

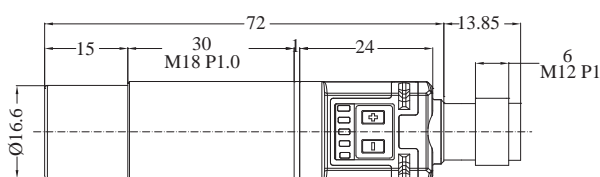
Output method 輸出模式	NPN N.O./N.C. PNP N.C./N.O.	PKC1816-KP2	PKC1816-KP2K1
Sensing distance / 檢出距離		1 ~ 16 mm	
Standard sensing object/標準檢出物		Conducting Neutral / 導體電中性	
Description / 外型		Standard M18 / 標準M18	
Hysteresis / 遲滯		≤ 10 % of sensing distance	
Response time / 反應時間		14.3 ms Max.	
Operating voltage / 工作電壓		DC 12 ~ 24V	
Current consumption / 消耗電流		≤ 22 mA no-load	
Load current / 負載電流		100 mA Max. at DC 24V	
Leakage current / 漏電流		≤ 1.1 mA no-load	
Residual voltage / 殘餘電壓		≤ DC 1.5V	
Insulation resistance / 隔離阻抗		20M Ω min. (DC500V)	
Voltage withstandability / 絕緣耐壓		AC1000V 60Hz for 60 Sec.	
Operating temperature/工作溫度範圍		-20°C ~ +60°C	
Portection degree / 防水等級		IP 65	
Wiring method / 出線方式		Per-wired Ø4.2 x 2M / 4-wires	M12 Plug-in connector type / M12接頭式
Weight / 重量		Approx.65g	Approx.25g

◆ Dimensions/尺寸圖 : (unit:mm)

• PKC1816-KP2

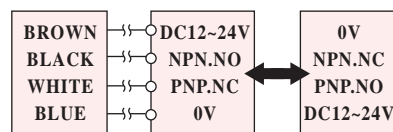


• PKC1816-KP2K1

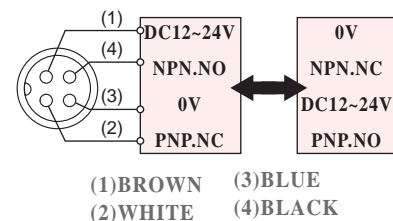


◆ Wiring diagrams / 接線圖 :

-KP2



-KP2K1



Inductive / Capacitive Proximity Sensor

PSD18-LA/LV
PSC18-LA/LV
SC18-LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

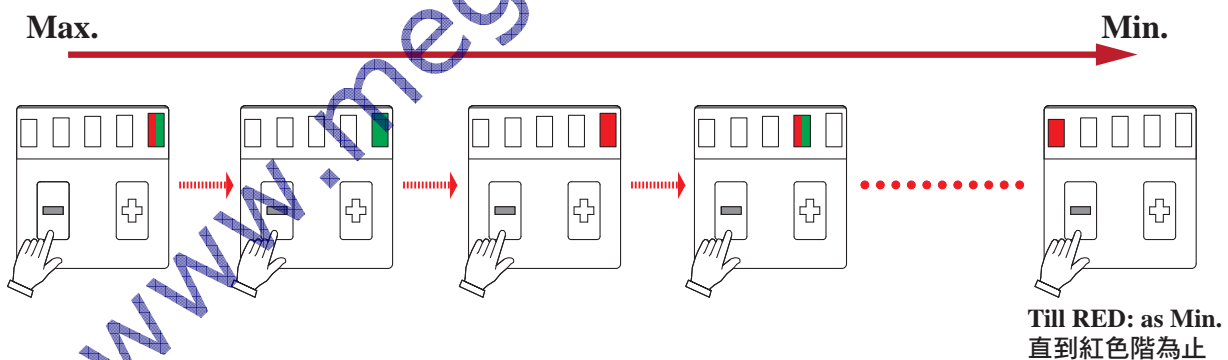
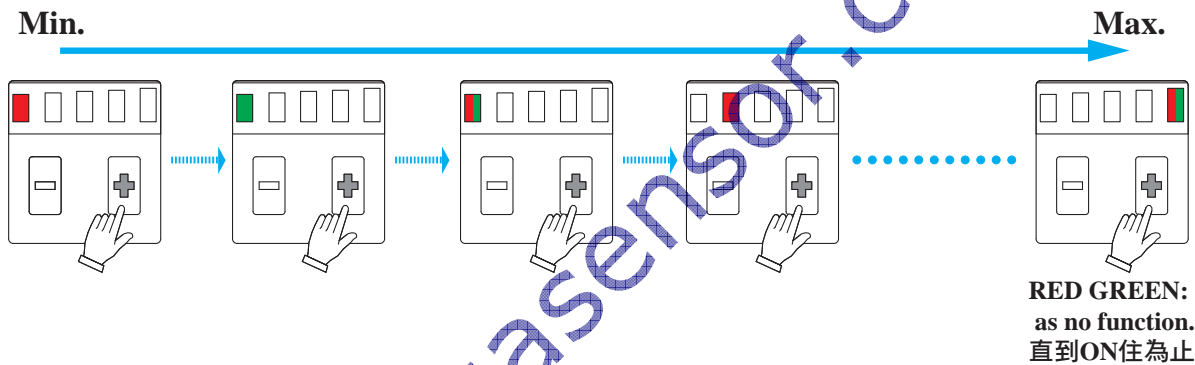
JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

◆ Operation manual of PKC1816-KP2 /PKC1816-KP2按鍵操作方法:

- Button **+** for extending sensing distance / **+** 鍵功能：此為增長檢測距離用之：
 1. Press **+** one time : slight adjustment of extending sensing distance. Press 16 counts : LED indicators will light upwards. Target sensed : output will change into ON. No reaction for button.
/按壓 **+** 壹次即放開，此為增長檢測距離之微調功能，若連續按壓、放開達約16次時，指示燈(LED)會往上改變亮(改變方式請看LED顯示說明)，當偵測到被測物時，輸出會改變狀態(OFF > ON)，按鍵將不會再有動作。
 2. Press **+** for 2 sec. Sensor will last longer sensing distance unless release button or target sensed.
/若按壓不放，超過2秒(約)，則機器會持續增長檢測距離，直至放開按鍵或偵測到物品為止，此時LED也會相對的往上亮滅變化。
- Button **-** for deducting sensing distance / **-** 鍵功能：此為減短檢測距離用之：
 1. Press **-** one time : slight adjustment of deducting sensing distance. Press 16 counts : LED indicators will light off downwards. Target absent : output will change into OFF.
/按壓 **-** 壹次即放開，此為減短檢測距離之微調功能，若連續按壓、放開達約16次時，指示燈號會往下改變，當遠離被測物時輸出會改變狀態(ON >> OFF)。
 2. Press **-** for 2 sec. Sensor will shorten sensing distance unless release button or minimum.
/若按壓不放，超過2秒(約)，則機器會持續縮短檢測距離，直至最短(MIN.)或放開按鍵，此時LED會相對的往下亮滅變化，直至最下方(如下圖)的紅燈亮，不再變化。



1. Always one set of lamps is lighting at one time, other sets will OFF.
/該組燈亮時，其他組燈將會完全熄滅，也就是永遠只會有一組燈點亮。
2. Upward lamps ON Distance is longer .
Downward lamps ON Distance is shorter.
/越往上之燈亮時，表示檢測距離越遠，越往下燈亮，表示檢測距離越短