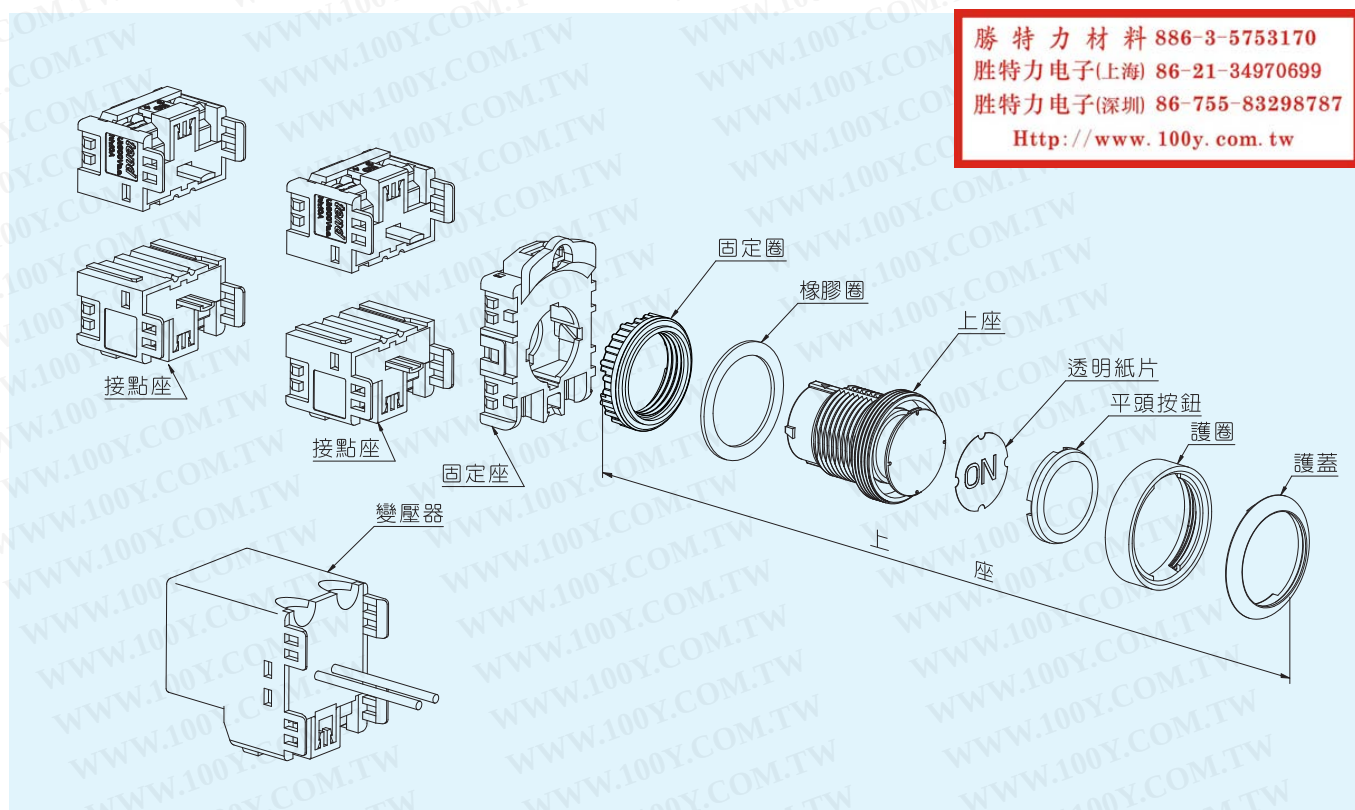


- 本系列控制器材，上部與接點座部份可分離，除二點式按鈕、及二點式照光按鈕外 (IP40)，全系列保護構造皆為IP65(IEC144)，可防水、防油、防塵、適用於較惡劣之環境。
- 本系列控制器材UL認證產品外觀全為灰色，無UL認證上部為灰色，下部為黑色。

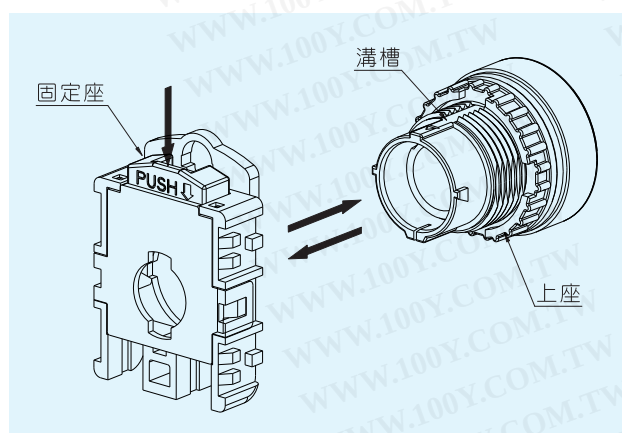
## ■按鈕開關組立圖



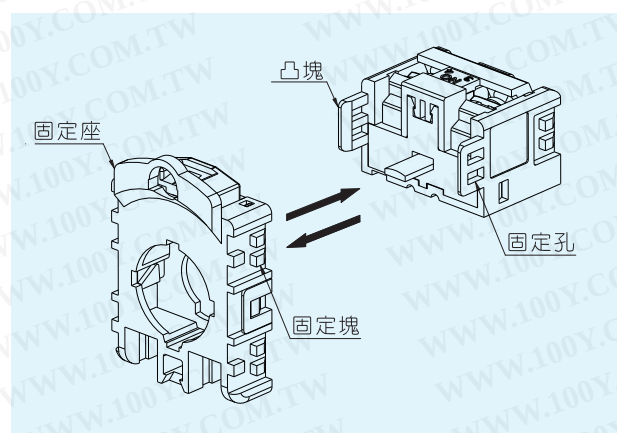
## ■特性

本系列開關為三段可拆組式開關，分為上座、固定座、接點座三部份。

- 上座與固定座之裝卸 (如圖一)
- 固定座與接點座之裝卸 (如圖二)



(圖一)



(圖二)

裝配：固定座橙色滑塊之 **PUSH** ↓對準上座螺牙溝槽壓入，即可固定。

拆卸：以手或以起子（螺絲刀）插入橙色滑塊上端之圓孔內，下壓橙色滑塊即可拆卸。

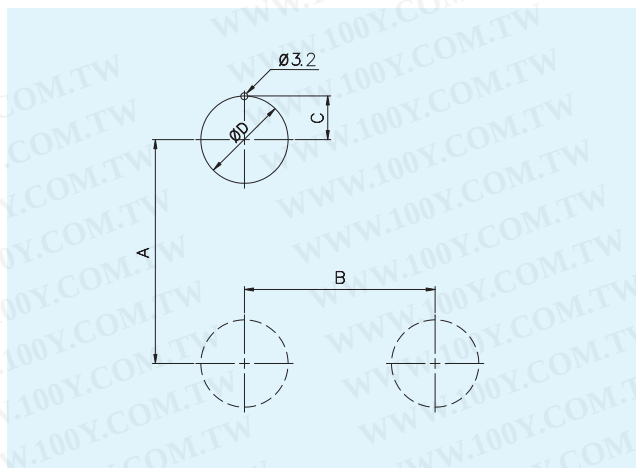
裝配：固定座上凸出之固定塊對準接點座之固定孔推入，即可固定。

拆卸：以一字起子（螺絲刀），分別插入接點座之凸塊往上撬起，即可拆卸。

## ■ 裝配孔徑與距離

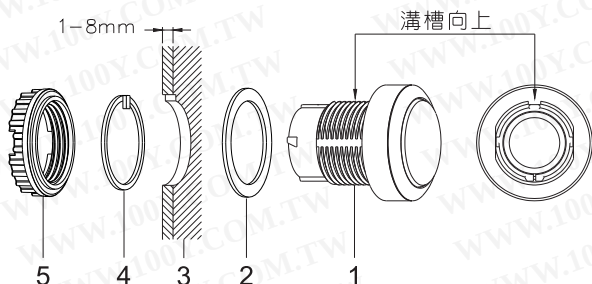
Ø22/Ø25/Ø30系列

尺寸說明：所有尺寸均為mm

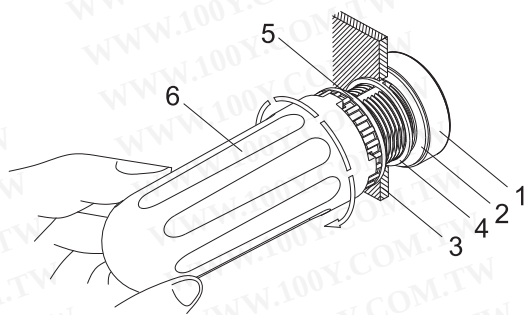


| 系 | 列                | Ø22    | Ø25  | Ø30  |
|---|------------------|--------|------|------|
| A | 二點式按鈕及十字開關以外所有機種 | 50min. |      |      |
|   | 二點式按鈕            | 60min. |      |      |
|   | 十字開關             | 90min. |      |      |
| B | 指示燈·按鈕·選擇·       | 31     | 31   | 35   |
|   | 附銘板              | 41min. |      |      |
|   | 大頭·連鎖·長柄選擇·      | 39min. |      |      |
|   | 二點式按鈕            | 90min. |      |      |
| C | 所有機種             | 11.2   | 12.7 | 15.2 |
| D | 所有機種             | 22.4   | 25.4 | 30.4 |

## ■ 上部之裝配



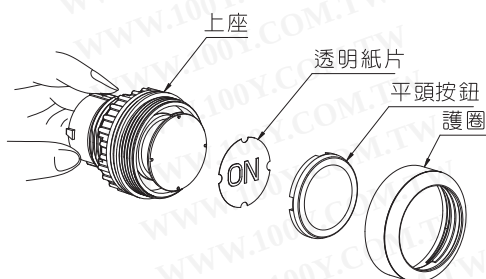
|    |     |   |   |     |     |
|----|-----|---|---|-----|-----|
| 1  | 2   | 3 | 4 | 5   | 6   |
| 上座 | 橡膠圈 | 面 | 板 | 止動環 | 固定圈 |



●上座與橡膠圈置於盤面，插入孔徑，止動環置於盤內對準上座與固定盤面之溝槽迫緊，再將固定圈鎖緊即可。

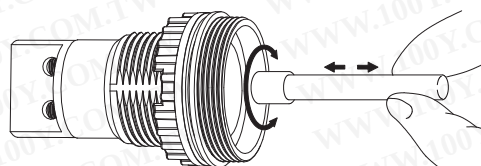
## ■ 文字與符號之標示

透明印刷紙片（種類見PTA92）

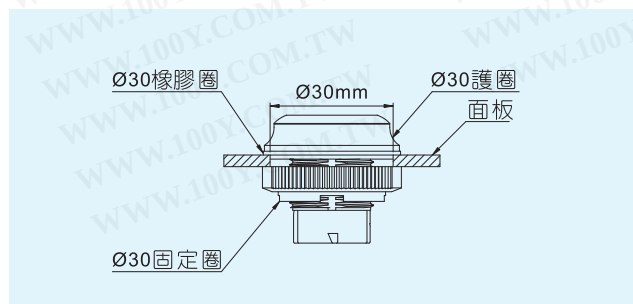
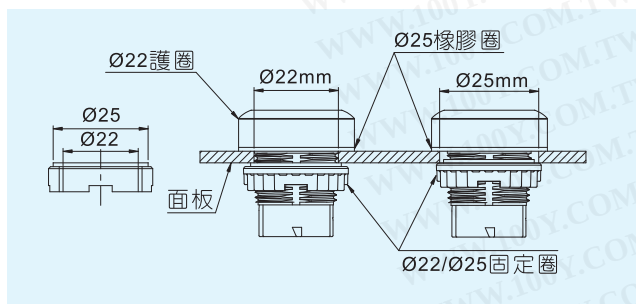


## ■ 燈泡替換方法

以T2-A燈泡拆卸器（見TA67）插入燈泡，順時針方向旋轉可將燈泡固定，反時針方向旋轉可將燈泡取下。



■ Ø22mm/Ø25mm系列尺寸與構造完全相同，● Ø30系列裝配方法由一共用之固定圈固定之。



## ■ 固定座的種類

固定座依其組裝及功能上的不同，共有以下三種。

標準固定座（TN2-1）



直接式固定座（TN2-2）



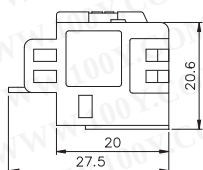
變壓器固定座（TN2-3）



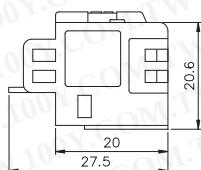
## ■ 接點座種類與加裝

接點座可分1a(1NO)、1b(1NC)、1c(1NO、1NC)三種，可自由加裝。

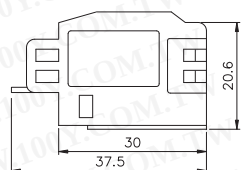
TN2-A(1a)



TN2-B(1b)



TN2-C(1c)

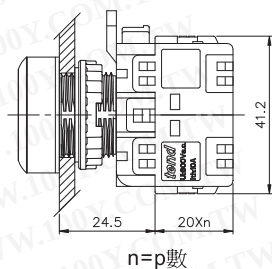


## ■ 接點座依其加裝在不同的成品系列，有三種型式。

1. 接點座加裝在標準固定座之後，稱為標準接點座，最多可裝至4C(或8a或8b)，用於不帶燈的系列。
2. 接點座加裝在直接式固定座之後，稱為直接式接點座，最多可裝至4C(或8a或8b)，用於所有帶燈的開關。
3. 接點座加裝在變壓器固定座之後，稱為變壓器接點座，最多可裝至2C(或4a或4b)，用於變壓器照光式系列。

## ■ 標準接點座外觀尺寸

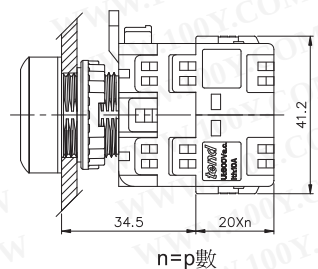
TN2-1a~TN2-8a  
TN2-1b~TN2-8b



n=p數

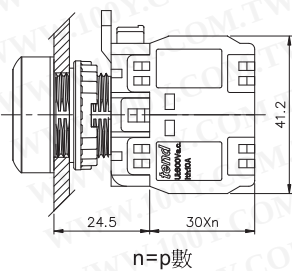
## ■ 直接式接點座外觀尺寸

TN2-11a~TN2-18a  
TN2-11b~TN2-18b



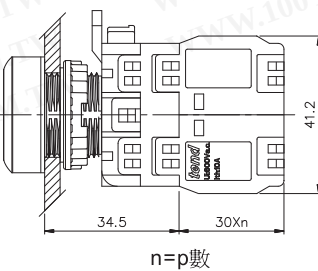
n=p數

TN2-1c~TN2-4c



n=p數

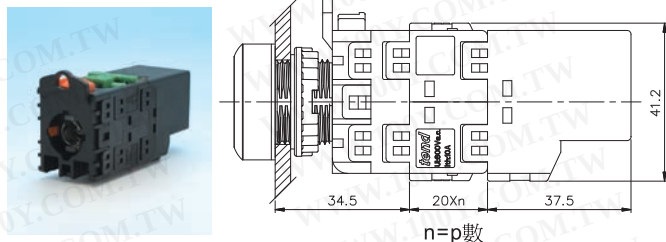
TN2-11c~TN2-14c



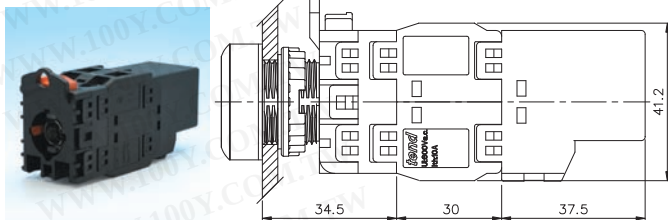
n=p數

## 變壓器接點座外觀尺寸

TN2-T1a~TN2-T4a.TN2-T1ab  
TN2-T1b~TN2-T4b



TN2-T2c



## 接點額定值

| 交流 | AC11 | AC24V | AC110V | AC220V | AC380V | AC440V | 直流 | DC11         | DC24V | DC110V | DC220V | DC380V |
|----|------|-------|--------|--------|--------|--------|----|--------------|-------|--------|--------|--------|
|    | 電感負載 | 10A   | 6A     | 4A     | 2.5A   | 2A     |    | 電感負載         | 1.5A  | 0.5A   | 0.2A   | 0.1A   |
| 流  | 電阻負載 | 10A   | 10A    | 6A     | 5A     | 4A     | 流  | DC14<br>電阻負載 | 10A   | 2A     | 0.6A   | 0.2A   |

## 特性

|      |                                  |                                                       |
|------|----------------------------------|-------------------------------------------------------|
| 動作頻率 | 機械                               | 復歸式按鈕為60次/分,其餘為30次/分                                  |
|      | 電氣                               | 30次/分                                                 |
| 壽命   | 機械                               | 復歸式按鈕為3,000,000次,其餘為300,000次                          |
|      | 電氣                               | 復歸式按鈕為500,000次,其餘為200,000次                            |
| 衝擊   | 耐久                               | 變壓器系列為600m/s <sup>2</sup> ,其餘為1000m/s <sup>2</sup>    |
|      | 誤動作                              | 非照光式復歸按鈕為1000m/s <sup>2</sup> ,其餘為250m/s <sup>2</sup> |
| 振動   | 誤動作                              | 10~55Hz複振幅1.5mm                                       |
| 接觸電阻 | 50mΩ以下(初期值)                      |                                                       |
| 絕緣電阻 | 500VDC電壓下,100MΩ以上                |                                                       |
| 耐電壓  | 接受AC2500V之測試電壓一分種,無短路,破壞,燒毀等異常現象 |                                                       |
| 周圍溫度 | -20°C~+60°C                      |                                                       |
| 周圍濕度 | 45~85%RH                         |                                                       |

## 標準接點座接點圖

| 型式  | TN2-1A | TN2-1B | TN2-1C | TN2-2A | TN2-2B | TN2-2C |
|-----|--------|--------|--------|--------|--------|--------|
| 接點  | 1a     | 1b     | 1a1b   | 2a     | 2b     | 2a2b   |
| 接點圖 |        |        |        |        |        |        |

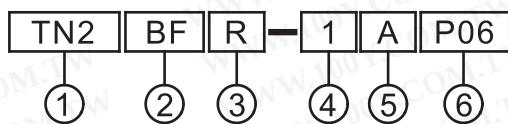
| 型式  | TN2-3A | TN2-3B | TN2-3C | TN2-4A | TN2-4B | TN2-4C |
|-----|--------|--------|--------|--------|--------|--------|
| 接點  | 3a     | 3b     | 3a3b   | 4a     | 4b     | 4a4b   |
| 接點圖 |        |        |        |        |        |        |

# tend TN2 Ø22/Ø25/Ø30按鈕開關

TN2

本系列開關接點座為標準接點座，其接點形式、接點圖、裝配尺寸見TA75,76頁。二點式接點限用AB。

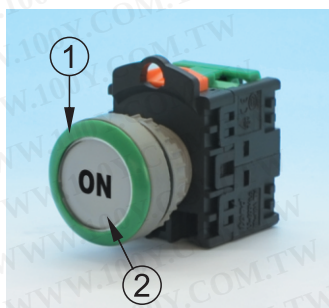
## 型號說明



註：1.第6項選00時為無刻字。

2.如有選第6項時，鈕的顏色皆為清澈透明，紅、黃、綠等顏色在護蓋上顯示。（僅限平頭及凸頭）

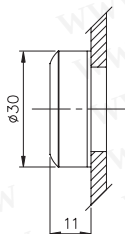
如下圖：



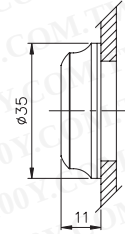
| 項次      | 代號                                     | 說明                                                   |
|---------|----------------------------------------|------------------------------------------------------|
| 1. 固定孔徑 | TN2<br>TN3                             | Ø22mm/Ø25mm<br>Ø30mm                                 |
| 2. 型式   | BF<br>BL<br>BM<br>BA<br>BK<br>BP<br>BT | 平頭<br>凸頭<br>大頭<br>凸頭交替式<br>連鎖式<br>按拉式<br>二點式(接點限用AB) |
| 3. 顏色   | R<br>G<br>Y<br>W<br>BL<br>B            | 紅<br>綠<br>黃<br>白<br>藍(限第6項有選)<br>黑                   |
| 4. 接點數目 | 1<br>2<br>3<br>4                       | 1組<br>2組<br>3組<br>4組                                 |
| 5. 接點種類 | A<br>B<br>C<br>AB                      | 1a<br>1b<br>1a1b<br>1a+1b                            |
| 6. 刻字種類 | 00<br>P01~P43<br>M01~M22               | 無刻字<br>詳見 TA92 TPP<br>詳見 TA92 TPM                    |

## 按鈕上座部份裝配尺寸

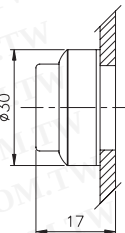
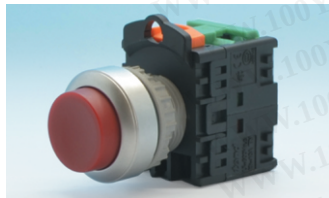
TN2BF



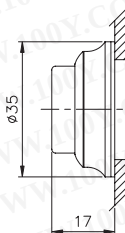
TN3BF



TN2BL



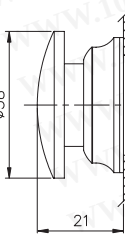
TN3BL



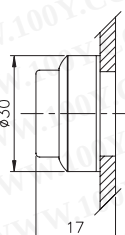
TN2BM



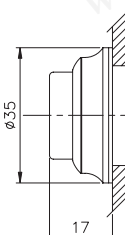
TN3BM



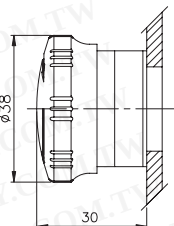
TN2BA



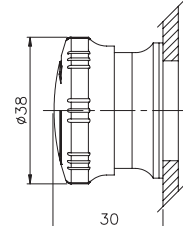
TN3BA



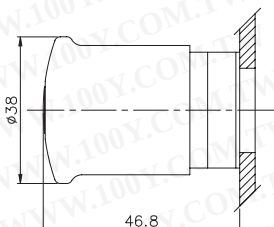
TN2BK



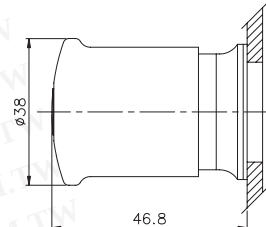
TN3BK



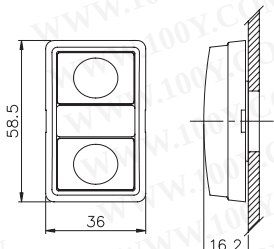
TN2BP



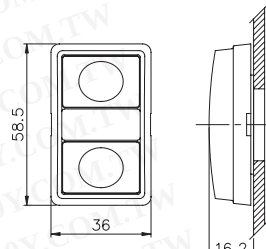
TN3BP



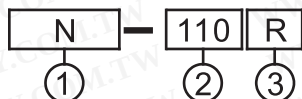
TN2BT



TN3BT



## 型號說明



## 燈泡規格 (含照光式與指示燈)

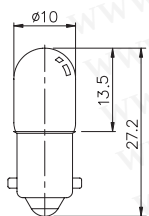
| 項次      | 代號  | 說明        |
|---------|-----|-----------|
| 1. 燈泡種類 | I   | 鎢絲燈泡(無顏色) |
|         | N   | 霓虹燈泡      |
|         | L   | LED燈泡     |
|         |     |           |
| 2. 電壓   | 6   | 6V AC/DC  |
|         | 12  | 12V AC/DC |
|         | 18  | 18V AC/DC |
|         | 24  | 24V AC/DC |
|         | 30  | 30V AC/DC |
|         | 110 | 110V AC   |
|         | 220 | 220V AC   |
|         | 380 | 380V AC   |
|         | 440 | 440V AC   |
| 3. 顏色   | R   | 紅         |
|         | G   | 綠         |
|         | W   | 白         |
|         | BL  | 藍         |

| 燈泡種類  | 額定電壓      | 額定電流   |
|-------|-----------|--------|
| 鎢絲燈泡  | 6V AC/DC  | 150mA  |
|       | 12V AC/DC | 100mA  |
|       | 18V AC/DC | 66mA   |
|       | 24V AC/DC | 50mA   |
|       | 30V AC/DC | 40mA   |
| 霓虹燈泡  | 110V AC   | 1.3mA  |
|       | 220V AC   | 2.2mA  |
|       | 380V AC   | 1.15mA |
|       | 440V AC   | 1.4mA  |
| LED燈泡 | 6V AC/DC  | 9~13mA |
|       | 12V AC/DC | 9~13mA |
|       | 24V AC/DC | 8~13mA |
|       | 30V AC/DC | 8~13mA |
|       | 110V AC   | 3~5mA  |
|       | 220V AC   | 3~5mA  |

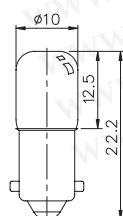
燈泡全部為BA9S-11X28mm(Ø9)，最大功率1.2W

## 燈泡外觀尺寸

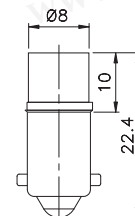
### ● 鎢絲燈泡



### ● 霓虹燈泡



### ● LED燈泡

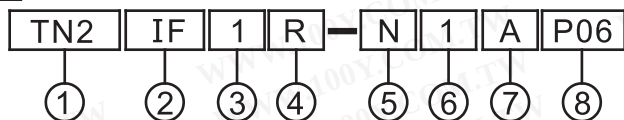


# tend TN2 Ø22/Ø25/Ø30直接式照光按鈕開關

TN2

本系列開關接點座為直接式接點座，燈泡種類與規格，見TA78頁。二點式接點限用AB。

## 型號說明

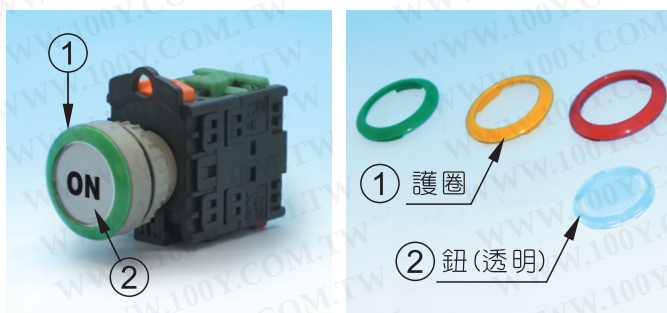


| 項次      | 代號                                     | 說明                                                      |
|---------|----------------------------------------|---------------------------------------------------------|
| 1. 固定孔徑 | TN2<br>TN3                             | Ø22mm/Ø25mm<br>Ø30mm                                    |
| 2. 型式   | IF<br>IL<br>IM<br>IA<br>IK<br>IT<br>IC | 平頭<br>凸頭<br>大頭<br>凸頭交替式<br>連鎖式<br>二點式 (接點限用AB)<br>全罩式凸頭 |

註：1. 第8項選00時為無刻字。

2. 如有選第8項時，鈕的顏色皆為清澈透明，紅、黃、綠等顏色在護蓋上顯示。(僅限平頭及凸頭)

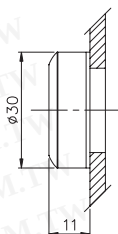
如下圖：



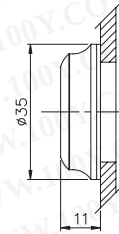
| 項次      | 代號                          | 說明                                   |
|---------|-----------------------------|--------------------------------------|
| 3. 電壓   | 1                           | 110VAC (霓虹、LED燈泡)                    |
|         | 2                           | 220VAC (霓虹、LED燈泡)                    |
|         | 3                           | 380VAC (霓虹燈泡)                        |
|         | 4                           | 440VAC (霓虹燈泡)                        |
|         | 5                           | 6VAC/DC (鎢絲、LED燈泡)                   |
|         | 6                           | 18VAC/DC (鎢絲燈泡)                      |
|         | 7                           | 24VAC/DC (鎢絲、LED燈泡)                  |
|         | 8                           | 30VAC/DC (鎢絲、LED燈泡)                  |
|         | 9                           | 12VAC/DC (鎢絲、LED燈泡)                  |
| 4. 顏色   | R<br>G<br>O<br>W<br>BL<br>C | 紅<br>綠<br>橙<br>白<br>藍<br>透明 (限第8項有選) |
| 5. 燈泡種類 | I<br>N<br>L                 | 鎢絲燈泡<br>霓虹燈泡<br>LED燈泡                |
| 6. 接點數目 | 1<br>2<br>3<br>4            | 1組<br>2組<br>3組<br>4組                 |
| 7. 接點種類 | A<br>B<br>C<br>AB           | 1a<br>1b<br>1a1b<br>1a+1b            |
| 8. 刻字種類 | 00<br>P01~P43<br>M01~M22    | 無刻字<br>詳見 TA92 TPP<br>詳見 TA92 TPM    |

## 直接式照光按鈕上座裝配尺寸

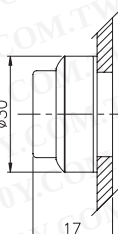
TN2IF



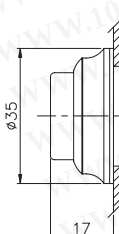
TN3IF



TN2IL



TN3IL



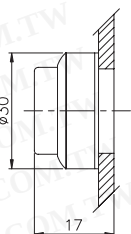
TN2IM



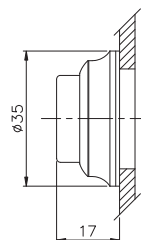
TN3IM



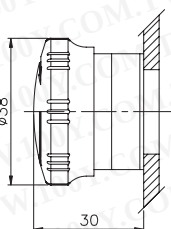
TN2IA



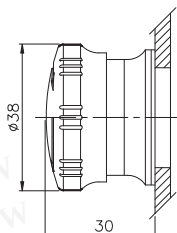
TN3IA



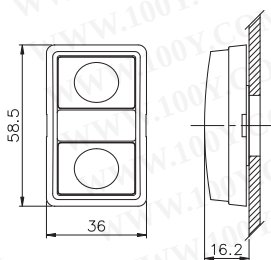
TN2IK



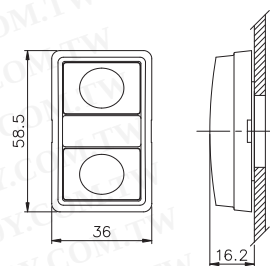
TN3IK



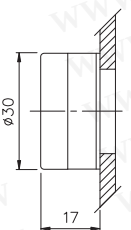
TN2IT



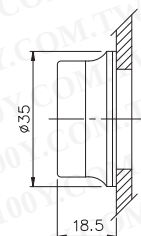
TN3IT



TN2IC



TN3IC



## 直接式照光接點座接點圖

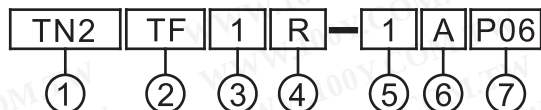
| 型 式   | TN2-I1A | TN2-I1B | TN2-I1C | TN2-I2A | TN2-I2B | TN2-I2C |
|-------|---------|---------|---------|---------|---------|---------|
| 接 點   | 1a      | 1b      | 1a1b    | 2a      | 2b      | 2a2b    |
| 接 點 圖 |         |         |         |         |         |         |
| 型 式   | TN2-I3A | TN2-I3B | TN2-I3C | TN2-I4A | TN2-I4B | TN2-I4C |
| 接 點   | 3a      | 3b      | 3a3b    | 4a      | 4b      | 4a4b    |
| 接 點 圖 |         |         |         |         |         |         |

# tend TN2 Ø22/Ø25/Ø30照光式按鈕開關

TN2

本系列開關為附變壓器式，二次電壓全部為5V，一律使用鎢絲（6V）燈泡，見TA78頁，接點座採用變壓器接點座，裝配尺寸見TA76頁。接點種類不可選用1C。二點式接點限用AB。

## 型號說明

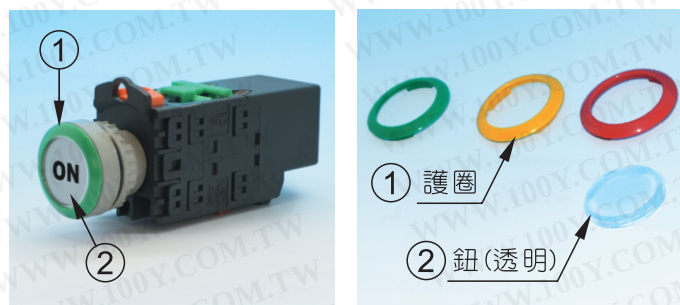


| 項次      | 代號         | 說明                   |
|---------|------------|----------------------|
| 1. 固定孔徑 | TN2<br>TN3 | Ø22mm/Ø25mm<br>Ø30mm |

註：1. 第7項選00時為無刻字。

2. 如有選第7項時，鈕的顏色皆為清澈透明，紅、黃、綠等顏色在護蓋上顯示。（僅限平頭及凸頭）

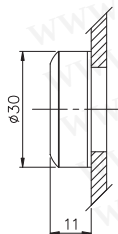
如下圖：



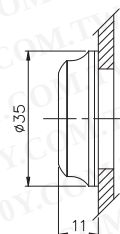
| 項次      | 代號                 | 說明                         |
|---------|--------------------|----------------------------|
| 2. 型式   | TF                 | 平頭                         |
|         | TL                 | 凸頭                         |
|         | TM                 | 大頭                         |
|         | TA                 | 凸頭交替式                      |
|         | TK                 | 連鎖式                        |
|         | TT                 | 二點式（接點限用AB）                |
|         | TC                 | 全罩式凸頭                      |
| 3. 電壓   | 1                  | 110VAC                     |
|         | 2                  | 220VAC                     |
|         | 3                  | 380VAC                     |
|         | 4                  | 440VAC                     |
| 4. 顏色   | R                  | 紅                          |
|         | G                  | 綠                          |
|         | O                  | 橙                          |
|         | W                  | 黑                          |
| 5. 接點數目 | 1                  | 1組                         |
|         | 2                  | 2組                         |
| 6. 接點種類 | A                  | 1a                         |
|         | B                  | 1b                         |
|         | C                  | 1a1b（僅限2C, 1C不可裝配）         |
|         | AB                 | 1a+1b                      |
| 7. 刻字種類 | 00                 | 無刻字                        |
|         | P01~P43<br>M01~M22 | 詳見 TA92 TPP<br>詳見 TA92 TPM |

## 照光式按鈕上座裝配尺寸

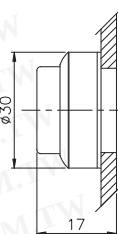
TN2TF



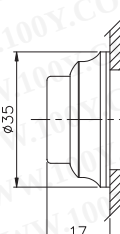
TN3TF



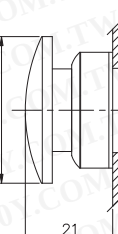
TN2TL



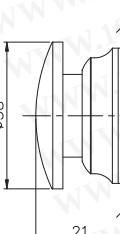
TN3TL



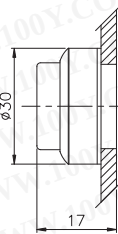
TN2TM



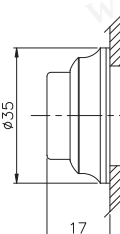
TN3TM



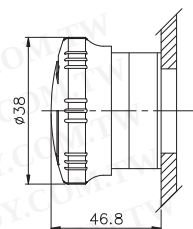
TN2TA



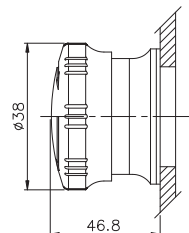
TN3TA



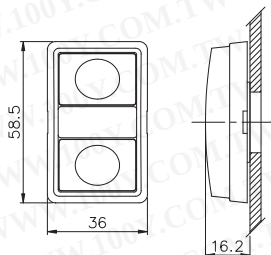
TN2TK



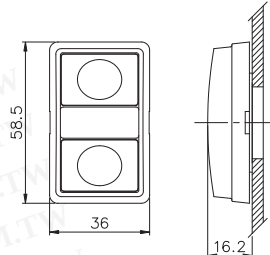
TN3TK



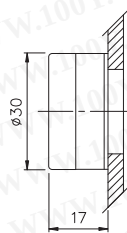
TN2TT



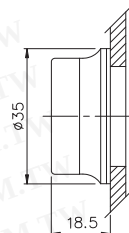
TN3TT



TN2TC



TN3TC



## 照光式接點座附變壓器接點圖

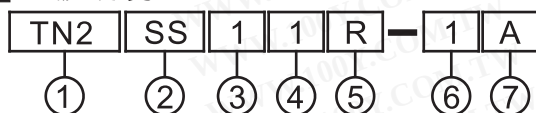
| 型 式   | TN2-T1A | TN2-T1B | TN2-T1AB | TN2-T2A | TN2-T2B | TN2-T2C |
|-------|---------|---------|----------|---------|---------|---------|
| 接 點   | 1a      | 1b      | 1a+1b    | 2a      | 2b      | 2a2b    |
| 接 點 圖 |         |         |          |         |         |         |

## tend TN2 Ø22/Ø25/Ø30選擇開關、鑰匙開關

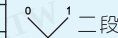
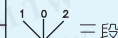
TN2

本系列開關之接點座採用標準接點座，裝配尺寸見TA75頁，二段式接點1C為1a1b，三段式接點AA為1a+1a(2a)。

### 型號說明



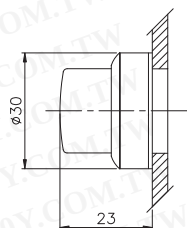
| 項 次     | 代 號            | 說 明                  |
|---------|----------------|----------------------|
| 1. 固定孔徑 | TN2<br>TN3     | Ø22mm/Ø25mm<br>Ø30mm |
| 2. 型 式  | SS<br>SH<br>KS | 標準選擇<br>長柄選擇<br>鑰匙選擇 |
| 3. 動作方式 | 1              | 三段90°X2              |
|         | 2              | 二段90°                |
|         | 3              | 二段90°復歸              |
|         | 4              | 三段45°X2              |
|         | 5              | 三段45°X2右邊復歸          |
|         | 6              | 三段45°X2左邊復歸          |
|         | 7              | 三段45°X2雙復歸           |

| 項次            | 代號               |                                                                                       | 說明                   |    |    |
|---------------|------------------|---------------------------------------------------------------------------------------|----------------------|----|----|
| 4. 鑰匙抽出<br>置位 | 1                |  | 0、1皆可抽出              |    |    |
|               | 2                |                                                                                       | 0可抽出                 |    |    |
|               | 3                |                                                                                       | 1可抽出                 |    |    |
|               | 4                |  | 0、1、2皆可抽出            |    |    |
|               | 5                |                                                                                       | 0可抽出                 |    |    |
|               | 6                |                                                                                       | 0、1、2皆可抽出            |    |    |
|               | 7                |                                                                                       | 0可抽出                 |    |    |
| 5. 顏色         | R<br>G<br>B      |                                                                                       | 紅<br>綠<br>黑          |    |    |
| 6. 接點數目       | 1<br>2<br>3<br>4 |                                                                                       | 1組<br>2組<br>3組<br>4組 |    |    |
|               | 7. 接點種類          |                                                                                       |                      | 二段 | 三段 |
|               |                  | A                                                                                     | 1a                   | —— |    |
|               |                  | B                                                                                     | 1b                   | —— |    |
| C             |                  | 1a1b                                                                                  | ——                   |    |    |
| AB            |                  | 1a+1b                                                                                 | ——                   |    |    |
| AA            |                  | ——                                                                                    | 1a + 1a(2a)          |    |    |

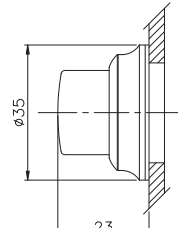
三段接點座限選用AA

## 選擇、鑰匙上座部份裝配尺寸

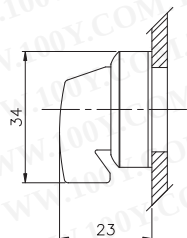
TN2SS



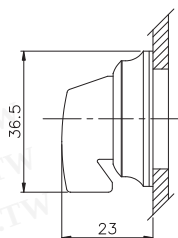
TN3SS



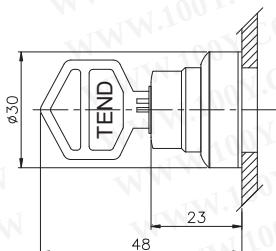
TN2SH



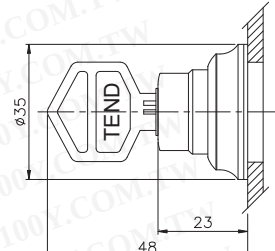
TN3SH



TN2KS



TN3KS



## 選擇開關二段接點圖

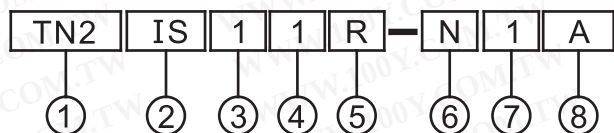
| 型 式   | TN2-1A                                                                                          | TN2-1B | TN2-1C | TN2-2A | TN2-2B | TN2-2C |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
|-------|-------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|---|-------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|--|---|-------------------------------------------------------------------------------------------------|----|---|---|-----|--|---|-------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|--|
| 接 點   | 1a                                                                                              | 1b     | 1a1b   | 2a     | 2b     | 2a2b   |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接 點 圖 |                                                                                                 |        |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
|       | <table><tr><th>接點</th><th>0</th><th>1</th></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點     | 0      | 1      | 3-4    |        | X | <table><tr><th>接點</th><th>0</th><th>1</th></tr><tr><td>1-2</td><td>X</td><td></td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | <table><tr><th>接點</th><th>0</th><th>1</th></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | 3-4 |  | X | <table><tr><th>接點</th><th>0</th><th>1</th></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 3-4 |  | X | <table><tr><th>接點</th><th>0</th><th>1</th></tr><tr><td>1-2</td><td>X</td><td></td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | <table><tr><th>接點</th><th>0</th><th>1</th></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | 3-4 |  |
| 接點    | 0                                                                                               | 1      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |        |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |        |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |        |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |        |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X      |        |        |        |        |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |

## 選擇開關三段接點圖

| 型 式   | TN2-1AA                                                                                                                                                                        | TN2-2AA |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|---|---|-----|---|--|--|-----|--|--|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|-----|---|--|--|-----|---|--|--|-----|--|--|---|-----|--|--|---|
| 接 點   | 1a 0 1a                                                                                                                                                                        | 2a 0 2a |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 接 點 圖 | <div><table><tr><th>接點</th><th>1</th><th>0</th><th>2</th></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr></table></div> | 接點      | 1 | 0 | 2 | 3-4 | X |  |  | 3-4 |  |  | X | <div><table><tr><th>接點</th><th>1</th><th>0</th><th>2</th></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr></table></div> | 接點 | 1 | 0 | 2 | 3-4 | X |  |  | 3-4 | X |  |  | 3-4 |  |  | X | 3-4 |  |  | X |
|       | 接點                                                                                                                                                                             | 1       | 0 | 2 |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   | X                                                                                                                                                                              |         |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   |                                                                                                                                                                                |         | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 接點    | 1                                                                                                                                                                              | 0       | 2 |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   | X                                                                                                                                                                              |         |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   | X                                                                                                                                                                              |         |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   |                                                                                                                                                                                |         | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   |                                                                                                                                                                                |         | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                                  |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |

本系列開關之接點座採用直接式接點座，裝配尺寸見TA75頁，燈泡種類與規格同直接式照光按鈕開關，見TA78頁。兩段式接點1c為1a1b，三段式接點AA為1a+1b(2a)。

## 型號說明



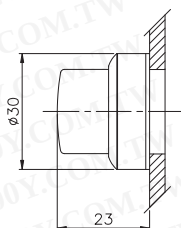
| 項次      | 代號         | 說明                                                                                              |
|---------|------------|-------------------------------------------------------------------------------------------------|
| 1. 固定孔徑 | TN2<br>TN3 | Ø22mm/Ø25mm<br>Ø30mm                                                                            |
| 2. 型式   | IS<br>IH   | 標準選擇<br>長柄選擇                                                                                    |
| 3. 動作方式 | 1          |  三段90°X2       |
|         | 2          |  二段90°         |
|         | 3          |  二段90°復歸       |
|         | 4          |  三段45°X2      |
|         | 5          |  三段45°X2右邊復歸 |
|         | 6          |  三段45°X2左邊復歸 |
|         | 7          |  三段45°X2二邊復歸 |

| 項 次     | 代 號                     | 說 明                 |             |
|---------|-------------------------|---------------------|-------------|
| 4. 電 壓  | 1                       | 110VAC (霓虹、LED燈泡)   |             |
|         | 2                       | 220VAC (霓虹、LED燈泡)   |             |
|         | 3                       | 380VAC (霓虹燈泡)       |             |
|         | 4                       | 440VAC (霓虹燈泡)       |             |
|         | 5                       | 6VAC/DC (鎢絲、LED燈泡)  |             |
|         | 6                       | 18VAC/DC (鎢絲燈泡)     |             |
|         | 7                       | 24VAC/DC (鎢絲、LED燈泡) |             |
|         | 8                       | 30VAC/DC (鎢絲、LED燈泡) |             |
|         | 9                       | 12VAC/DC (鎢絲、LED燈泡) |             |
| 5. 顏 色  | R                       | 紅                   |             |
|         | G                       | 綠                   |             |
|         | O                       | 橙                   |             |
|         | W                       | 白                   |             |
|         | BL                      | 藍                   |             |
| 6. 燈泡種類 | I                       | 鎢絲燈泡                |             |
|         | N                       | 霓虹燈泡                |             |
|         | L                       | LED燈泡               |             |
| 7. 接點數目 | 1                       | 1組                  |             |
|         | 2                       | 2組                  |             |
|         | 3                       | 3組                  |             |
|         | 4                       | 4組                  |             |
| 8. 接點種類 | A<br>B<br>C<br>AB<br>AA | 二段                  | 三段          |
|         |                         | 1a                  | ——          |
|         |                         | 1b                  | ——          |
|         |                         | 1a1b                | ——          |
|         |                         | 1a+1b               | ——          |
|         |                         | ——                  | 1a + 1a(2a) |
|         |                         |                     |             |

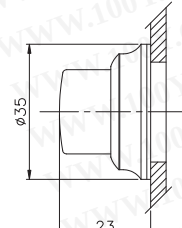
三段接點座限選用AA

## 直接式照光選擇上座部份裝配尺寸

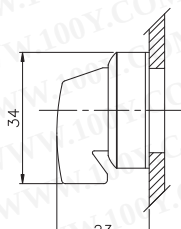
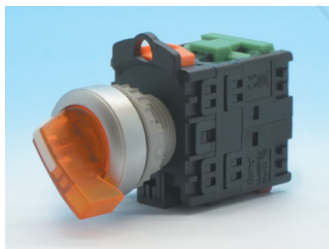
TN2IS



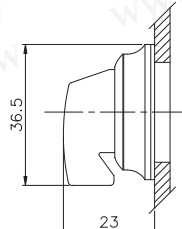
TN3IS



TN2IH



TN3IH



## 直接式照光選擇開關二段接點圖

| 型 式   | TN2-I1A                                                                                         | TN2-I1B | TN2-I1C | TN2-I2A | TN2-I2B | TN2-I2C |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
|-------|-------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---|-------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|--|---|-------------------------------------------------------------------------------------------------|----|---|---|-----|--|---|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|--|---|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|--|
| 接 點   | 1a                                                                                              | 1b      | 1a1b    | 2a      | 2b      | 2a2b    |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接 點 圖 |                                                                                                 |         |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
|       | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點      | 0       | 1       | 3-4     |         | X | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | 3-4 |  | X | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 3-4 |  | X | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | 3-4 |  | X | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | 3-4 |  |
| 接點    | 0                                                                                               | 1       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |         |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |         |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |         |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 接點    | 0                                                                                               | 1       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 1-2   | X                                                                                               |         |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |
| 3-4   |                                                                                                 | X       |         |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                 |    |   |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |  |

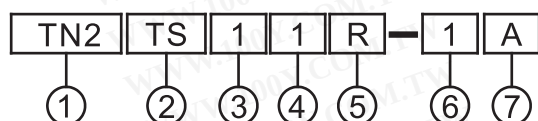
## 直接式照光選擇開關三段接點圖

| 型 式 | TN2-I1AA                                                                                                                                                            | TN2-I2AA |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|---|---|-----|---|--|--|-----|--|--|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|-----|---|--|--|-----|---|--|--|-----|--|--|---|-----|--|--|---|
| 接 點 | 1a 0 1a                                                                                                                                                             | 2a 0 2a  |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 接點圖 | <table><tr><th>接點</th><th>1</th><th>0</th><th>2</th></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr></table> | 接點       | 1 | 0 | 2 | 3-4 | X |  |  | 3-4 |  |  | X | <table><tr><th>接點</th><th>1</th><th>0</th><th>2</th></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr></table> | 接點 | 1 | 0 | 2 | 3-4 | X |  |  | 3-4 | X |  |  | 3-4 |  |  | X | 3-4 |  |  | X |
|     | 接點                                                                                                                                                                  | 1        | 0 | 2 |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4 | X                                                                                                                                                                   |          |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4 |                                                                                                                                                                     |          | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 接點  | 1                                                                                                                                                                   | 0        | 2 |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4 | X                                                                                                                                                                   |          |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4 | X                                                                                                                                                                   |          |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4 |                                                                                                                                                                     |          | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4 |                                                                                                                                                                     |          | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |

# tend TN2 Ø22/Ø25/Ø30照光式選擇開關

本系列開關為附變壓器式，二次電壓全部為5V，一律使用鎢絲(6V)燈泡，見TA78頁，接點座用變壓器接點座，裝配尺寸見TA76頁。三段式接點種類AA為1a+1a(2a)。

## 型號說明



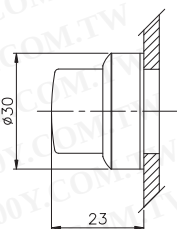
| 項 次     | 代 號        | 說 明                  |
|---------|------------|----------------------|
| 1. 固定孔徑 | TN2<br>TN3 | Ø22mm/Ø25mm<br>Ø30mm |
| 2. 型 式  | TS<br>TH   | 標準選擇<br>長柄選擇         |
| 3. 動作方式 | 1          | 三段90°X2              |
|         | 2          | 二段90°                |
|         | 3          | 二段90°復歸              |
|         | 4          | 三段45°X2              |
|         | 5          | 三段45°X2右邊復歸          |
|         | 6          | 三段45°X2左邊復歸          |
|         | 7          | 三段45°X2二邊復歸          |

| 項 次     | 代 號 | 說 明         |
|---------|-----|-------------|
| 4. 電 壓  | 1   | 110VAC      |
|         | 2   | 220VAC      |
|         | 3   | 380VAC      |
|         | 4   | 440VAC      |
| 5. 顏 色  | R   | 紅           |
|         | G   | 綠           |
|         | O   | 橙           |
|         | W   | 白           |
| 7. 接點數目 | 1   | 1組          |
|         | 2   | 2組          |
| 8. 接點種類 | A   | 二段          |
|         | B   | 三段          |
|         | C   | 1a          |
|         | AB  | 1b          |
|         | AA  | 1a+1b       |
|         |     | 1a + 1a(2a) |

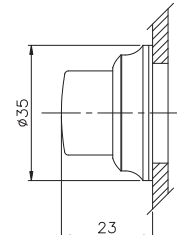
三段接點座限選用AA

## 照光式選擇開關上座部份裝配尺寸

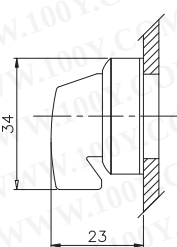
TN2TS



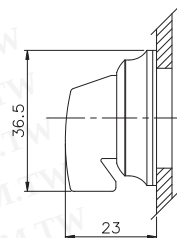
TN3TS



TN2TH



TN3TH



## 照光式選擇開關二段接點圖

| 型 式   | TN2-T1A                                                                                         | TN2-T1B | TN2-T1AB | TN2-T2A | TN2-T2B | TN2-T2C |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
|-------|-------------------------------------------------------------------------------------------------|---------|----------|---------|---------|---------|---|-------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|--|---|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|--|---|-----|--|---|-----------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|---|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-----|---|--|-----|--|---|-----|--|
| 接 點   | 1a                                                                                              | 1b      | 1a+1b    | 2a      | 2b      | 2a2b    |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 接 點 圖 |                                                                                                 |         |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
|       | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點      | 0        | 1       | 3-4     |         | X | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | <table><tr><td>接點</td><td>1</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 1 | 1 | 1-2 | X |  | 3-4 |  | X | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>3-4</td><td></td><td>X</td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 3-4 |  | X | 3-4 |  | X | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>1-2</td><td>X</td><td></td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | 1-2 | X |  | <table><tr><td>接點</td><td>0</td><td>1</td></tr><tr><td>1-2</td><td>X</td><td></td></tr><tr><td>3-4</td><td></td><td>X</td></tr><tr><td>3-4</td><td></td><td>X</td></tr></table> | 接點 | 0 | 1 | 1-2 | X |  | 3-4 |  | X | 3-4 |  |
| 接點    | 0                                                                                               | 1       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 3-4   |                                                                                                 | X       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 接點    | 0                                                                                               | 1       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 1-2   | X                                                                                               |         |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 接點    | 1                                                                                               | 1       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 1-2   | X                                                                                               |         |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 3-4   |                                                                                                 | X       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 接點    | 0                                                                                               | 1       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 3-4   |                                                                                                 | X       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 3-4   |                                                                                                 | X       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 接點    | 0                                                                                               | 1       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 1-2   | X                                                                                               |         |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 1-2   | X                                                                                               |         |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 接點    | 0                                                                                               | 1       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 1-2   | X                                                                                               |         |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 3-4   |                                                                                                 | X       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |
| 3-4   |                                                                                                 | X       |          |         |         |         |   |                                                                                                 |    |   |   |     |   |  |                                                                                                                                         |    |   |   |     |   |  |     |  |   |                                                                                                                                         |    |   |   |     |  |   |     |  |   |                                                                                                                                         |    |   |   |     |   |  |     |   |  |                                                                                                                                                                                 |    |   |   |     |   |  |     |  |   |     |  |

## 照光式選擇開關三段接點圖

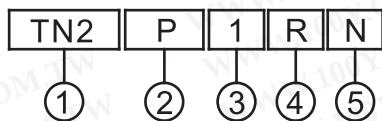
| 型 式   | TN2-T1AA                                                                                                                                                            | TN2-T2AA |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|---|---|-----|---|--|--|-----|--|--|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|-----|---|--|--|-----|---|--|--|-----|--|--|---|-----|--|--|---|
| 接 點   | 1a 0 1a                                                                                                                                                             | 2a 0 2a  |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 接 點 圖 | <table><tr><th>接點</th><th>1</th><th>0</th><th>2</th></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr></table> | 接點       | 1 | 0 | 2 | 3-4 | X |  |  | 3-4 |  |  | X | <table><tr><th>接點</th><th>1</th><th>0</th><th>2</th></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td>X</td><td></td><td></td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr><tr><td>3-4</td><td></td><td></td><td>X</td></tr></table> | 接點 | 1 | 0 | 2 | 3-4 | X |  |  | 3-4 | X |  |  | 3-4 |  |  | X | 3-4 |  |  | X |
|       | 接點                                                                                                                                                                  | 1        | 0 | 2 |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   | X                                                                                                                                                                   |          |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   |                                                                                                                                                                     |          | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 接點    | 1                                                                                                                                                                   | 0        | 2 |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   | X                                                                                                                                                                   |          |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   | X                                                                                                                                                                   |          |   |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   |                                                                                                                                                                     |          | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |
| 3-4   |                                                                                                                                                                     |          | X |   |   |     |   |  |  |     |  |  |   |                                                                                                                                                                                                                                                                       |    |   |   |   |     |   |  |  |     |   |  |  |     |  |  |   |     |  |  |   |

# tend TN2 Ø22/Ø25/Ø30直接式指示燈

TN2

直接式指示燈所用燈泡種類與規格，同直接式照光按鈕開關，見TA78頁。

## 型號說明

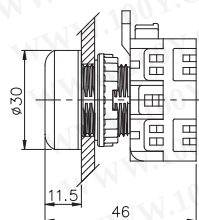


| 項次      | 代號               | 說明                                            |
|---------|------------------|-----------------------------------------------|
| 1. 固定孔徑 | TN2<br>TN3       | Ø22mm/Ø25mm<br>Ø30mm                          |
| 2. 型式   | P<br>L<br>N<br>D | 直接式<br>簡單式 (接線螺絲在後)<br>簡單式 (接線螺絲在二側)<br>大型LED |

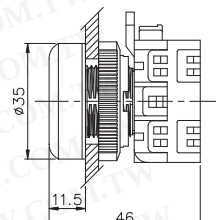
| 項次      | 代號 | 說明                  |
|---------|----|---------------------|
| 3. 電壓   | 1  | 110VAC (霓虹、LED燈泡)   |
|         | 2  | 220VAC (霓虹、LED燈泡)   |
|         | 3  | 380VAC (霓虹燈泡)       |
|         | 4  | 440VAC (霓虹燈泡)       |
|         | 5  | 6VAC/DC (鎢絲、LED燈泡)  |
|         | 6  | 18VAC/DC (鎢絲燈泡)     |
|         | 7  | 24VAC/DC (鎢絲、LED燈泡) |
|         | 8  | 30VAC/DC (鎢絲、LED燈泡) |
|         | 9  | 12VAC/DC (鎢絲燈泡)     |
| 4. 顏色   | R  | 紅                   |
|         | G  | 綠                   |
|         | O  | 橙                   |
|         | W  | 白                   |
|         | BL | 藍                   |
| 5. 燈泡種類 | YG | 黃綠                  |
|         | I  | 鎢絲燈泡                |
|         | N  | 霓虹燈泡                |
|         | L  | LED燈泡               |

## 指示燈裝配尺寸

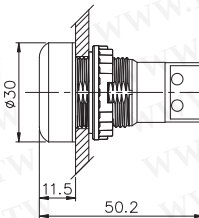
TN2P



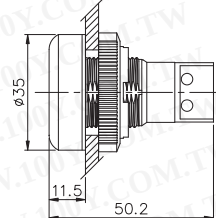
TN3P



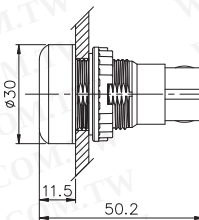
TN2L



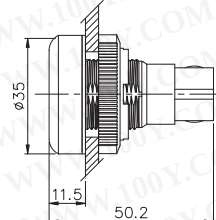
TN3L



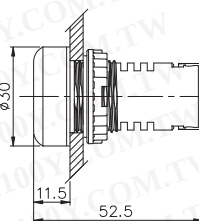
TN2N



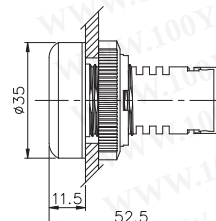
TN3N



TN2D

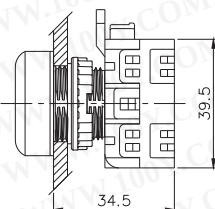
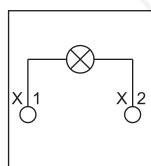


TN3D



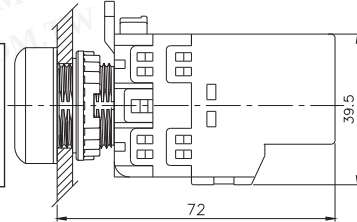
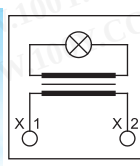
## 直接式指示燈電源座接線圖及裝配尺寸

TNPS-1



## 指示燈電源座接線圖及裝配尺寸

TNPS-2

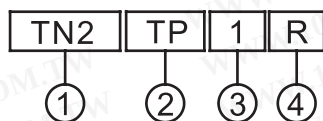


# tend TN2 Ø22/Ø25/Ø30指示燈

TN2

本系列指示燈為附變壓器，二次電壓全部為5V，一律使用鎢絲（6V）燈泡，見TA78頁。

## 型號說明

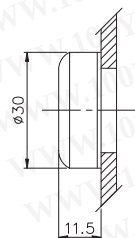


| 項次      | 代號         | 說明                   |
|---------|------------|----------------------|
| 1. 固定孔徑 | TN2<br>TN3 | Ø22mm/Ø25mm<br>Ø30mm |
| 2. 型式   | TP         | 變壓器式                 |

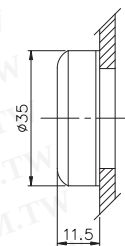
| 項次    | 代號      | 說明         |
|-------|---------|------------|
| 3. 電壓 | 1       | 110V/5 VAC |
|       | 2       | 220V/5 VAC |
|       | 3       | 380V/5 VAC |
|       | 4       | 440V/5 VAC |
| 4. 顏色 | R       | 紅          |
|       | G       | 綠          |
|       | O       | 橙          |
|       | W<br>BL | 白<br>藍     |

## 指示燈上座部份裝配尺寸

TN2TP



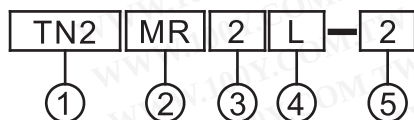
TN3TP



# tend TN2 Ø22/Ø25/Ø30十字開關

TN2

## 型號說明

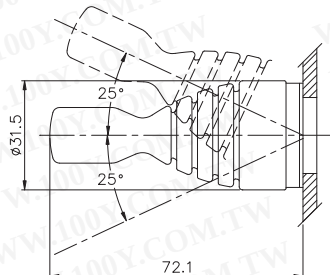


本系列開關之接點座依上下左右之方向印有UDLR，為十字開關專用，不可與其他開關混用

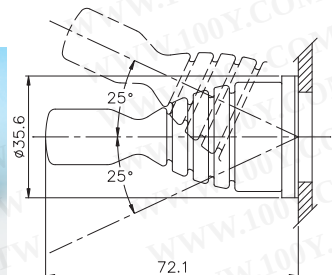
| 項次      | 代號          | 說明                                |
|---------|-------------|-----------------------------------|
| 1. 固定孔徑 | TN2<br>TN3  | Ø22mm/Ø25mm<br>Ø30mm              |
| 2. 型式   | MR<br>MZ    | 十字開關<br>十字開關（鋅合金接點座）              |
| 3. 方向   | 2<br>4      | 上下二方向<br>上下左右四方向                  |
| 4. 操作方式 | L<br>R      | 保持<br>復歸                          |
| 5. 接點數目 | 2<br>4<br>8 | 上下各1a<br>上下各2a或上下左右各1a<br>上下左右各2a |

## 型號說明

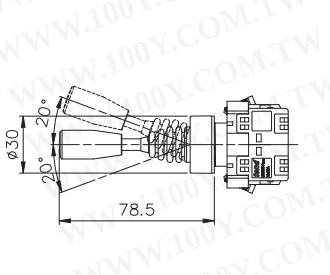
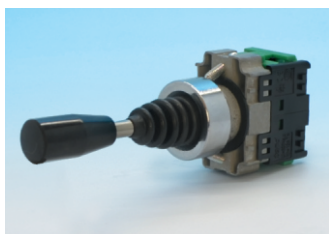
TN2MR2



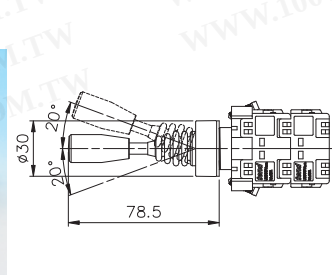
TN3MR4



TN2MZ2



TN2MZ4

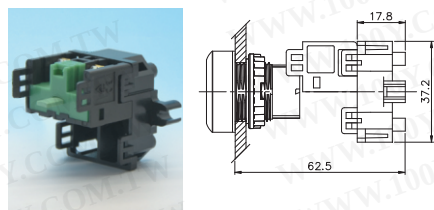


# tend TN2 Ø22開關盒

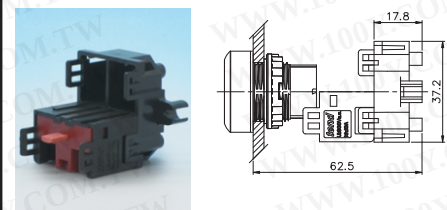
TN2

本系列開關盒固定孔徑為Ø22mm,單孔開關盒有黃、灰二色,其餘全為灰色。接點座為專用型式,不同於Ø22/Ø30系列控制器材。上座部份之裝配尺寸、種類則於Ø22系列控制器材相同,開關盒使用之接點座型號TN2-B1A、TN2-B1B及TN2-B1C。

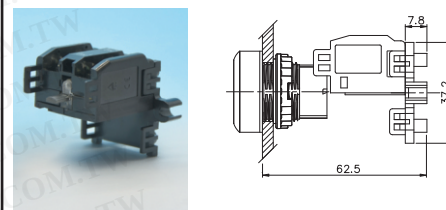
TN2-B1A



TN2-B1B



TN2-B1C



## 開關盒與開關之組立

- 1 將開關盒上蓋與下座拆開
- 2 將接點座固定於開關盒下座,將上座固定於開關盒上蓋。
- 3 將開關盒上蓋盒下座組合鎖上即成整組。

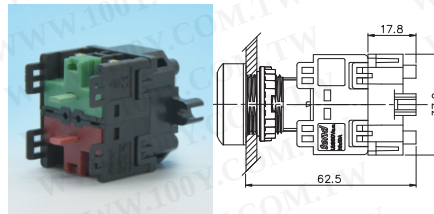
■ 本系列開關盒保護構造為IP65(IEC144)。

■ 用於開關盒上之所有照光式開關、指示燈,一律為直接式。

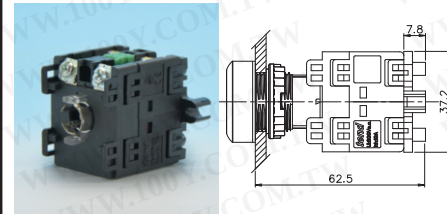
## 開關盒標準接點座 (接點圖同標準接點座,見TA76頁)

## 開關盒照光式接點座 (接點圖同直接式照光接點座,見TA80頁)

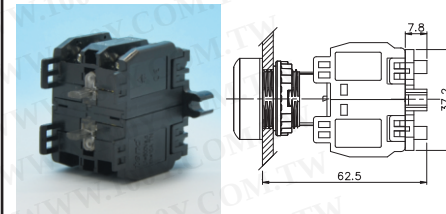
TN2-B1ab • TN2-B2a • TN2-B2b



TN2-B1ab • TN2-B12a • TN2-B12b



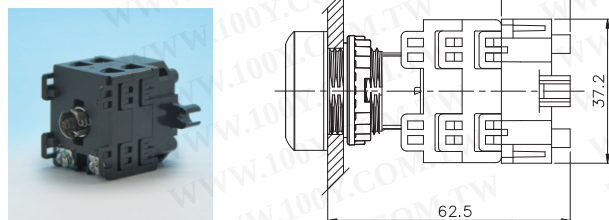
TN2-B2c



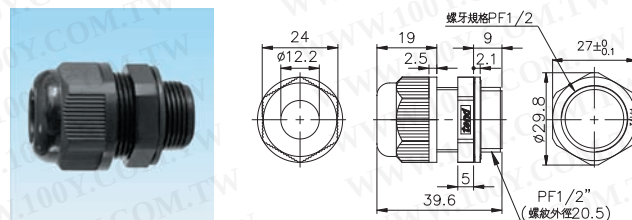
## 開關盒指示燈電源座 (接點圖同直接式指示燈,見TA87頁)

## 電纜固定頭外觀和尺寸 TPF21

TNPS-3



(適用電纜線徑: Ø6~Ø12) 工作溫度: -40℃~100℃



## 開關盒外觀與尺寸 (Ø22與Ø30系列, 除固定孔徑不同外, 其餘尺寸皆相同)

TN2-B1



TN2-B2



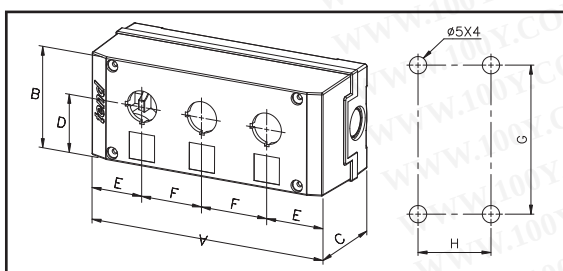
TN2-B3



TN2-B4



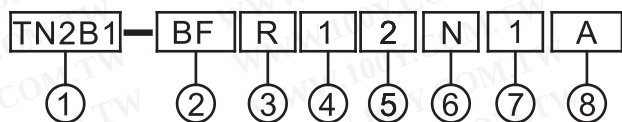
TN2-B5



| 型 式    | A   | B  | C    | D    | E  | F  | G   | H  |
|--------|-----|----|------|------|----|----|-----|----|
| TN2-B1 | 82  | 75 | 67.3 | 43.5 | 41 | —  | 63  | 54 |
| TN3-B1 | 82  | 75 | 67.3 | 43.5 | 41 | —  | 63  | 54 |
| TN2-B2 | 127 | 75 | 67.3 | 43.5 | 41 | 45 | 108 | 54 |
| TN3-B2 | 127 | 75 | 67.3 | 43.5 | 41 | 45 | 108 | 54 |
| TN2-B3 | 172 | 75 | 67.3 | 43.5 | 41 | 45 | 153 | 54 |
| TN3-B3 | 172 | 75 | 67.3 | 43.5 | 41 | 45 | 153 | 54 |
| TN2-B4 | 217 | 75 | 67.3 | 43.5 | 41 | 45 | 198 | 54 |
| TN3-B4 | 217 | 75 | 67.3 | 43.5 | 41 | 45 | 198 | 54 |
| TN2-B5 | 262 | 75 | 67.3 | 43.5 | 41 | 45 | 243 | 54 |
| TN3-B5 | 262 | 75 | 67.3 | 43.5 | 41 | 45 | 243 | 54 |

- 本系列開關盒附開關裝配孔徑為Ø22一種，其裝配之照光式、指示燈全為直接式。
- 大頭按鈕、連鎖式按鈕之開關盒為黃色及灰色，其餘為灰色。

## 一個開關 型號說明



| 項次     | 代號    | 說明      |
|--------|-------|---------|
| 1. 開關數 | TN2B1 | 一個開關    |
| 2. 型式  | BF    | 平頭按鈕    |
|        | BL    | 凸頭按鈕    |
|        | BM    | 大頭按鈕    |
|        | BK    | 連鎖式按鈕   |
|        | IF    | 平頭照光按鈕  |
|        | IL    | 凸頭照光按鈕  |
|        | IM    | 大頭照光按鈕  |
|        | IK    | 照光式連鎖按鈕 |
|        | S2    | 二段式選擇   |
|        | S3    | 三段式選擇   |

| 項次      | 代號                                        | 說明                                                                                                                                                                                 |
|---------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. 顏色   | R<br>G<br>B                               | 紅<br>綠<br>黑                                                                                                                                                                        |
| 4. 銘牌   | 1<br>2<br>3<br>4<br>5                     | OFF<br>ON<br>EM.STOP<br>OFF-ON<br>ON-OFF-ON                                                                                                                                        |
| 5. 電壓   | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | 110VAC (霓虹、LED燈泡)<br>220VAC (霓虹、LED燈泡)<br>380VAC (霓虹燈泡)<br>440VAC (霓虹燈泡)<br>6VAC/DC (鎢絲、LED燈泡)<br>18VAC/DC (鎢絲燈泡)<br>24VAC/DC (鎢絲、LED燈泡)<br>30VAC/DC (鎢絲、LED燈泡)<br>12VAC/DC (鎢絲燈泡) |
| 6. 燈泡種類 | I<br>N<br>L                               | 鎢絲燈泡<br>霓虹燈泡<br>LED燈泡                                                                                                                                                              |
| 7. 接點數目 | 1<br>2                                    | 1組<br>2組                                                                                                                                                                           |
| 8. 接點種類 | A<br>B<br>C<br>AB                         | 1a<br>1b<br>1a1b(選擇三段為1a 0 1a)<br>1a+1b                                                                                                                                            |

TN2B1-BFR1  
TN2B1-IFR1



TN2B1-BFG2  
TN2B1-IFG2



TN2B1-BLR1  
TN2B1-ILR1



TN2B1-BLG2  
TN2B1-ILG2



TN2B1-BMR3  
TN2B1-IMR3



TN2B1-BKR3  
TN2B1-IKR3



TN2B1-S2B4



TN2B1-S3B5



## 二個開關



| 型 式       | 銘 牌           | 開 關 種 類            | 電 壓    | 燈 泡 |
|-----------|---------------|--------------------|--------|-----|
| TN2B2-BF  | (上)W (下)U OFF | 平頭按鈕 (上) 綠 (下) 紅   |        |     |
| TN2B2-IF2 | (上)W (下)U OFF | 平頭照光按鈕 (上) 綠 (下) 紅 | 220VAC | 霓虹  |
| TN2B2-IF7 | (上)W (下)U OFF | 平頭照光按鈕 (上) 綠 (下) 紅 | 24V    | 鎢絲  |

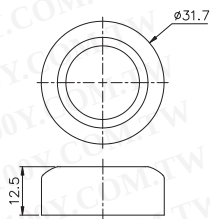
## 三個開關



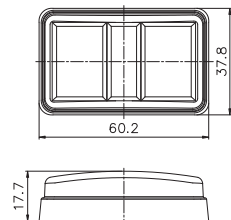
| 型 式       | 銘 牌                     | 開 關 種 類                         | 燈 泡 |
|-----------|-------------------------|---------------------------------|-----|
| TN2B3-BF  | (上) ON (中) OFF (下) ON   | 平頭按鈕 (上) 綠 (中) 紅 (下) 綠          |     |
| TN2B3-IF  | (上) ON (中) OFF (下) ON   | 平頭照光按鈕 (上) 綠 (中) 紅 (下) 綠        |     |
| TN2B3-PF2 | (上) 220V (中) ON (下) OFF | (上) 指示燈紅色 (中) 平頭按鈕綠色 (下) 平頭按鈕紅色 | 霓虹  |
| TN2B3-PF7 | (上) 24V (中) ON (下) OFF  | (上) 指示燈紅色 (中) 平頭按鈕綠色 (下) 平頭按鈕紅色 | 鎢絲  |

## ■ 附件

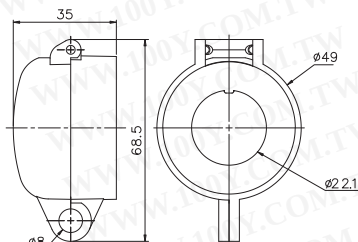
TN2-BFW (TN2-BF/IF用)  
防水套



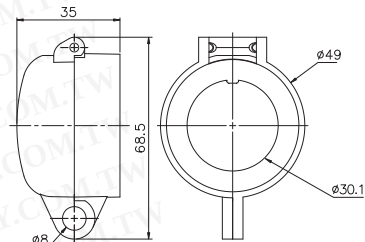
TN2-BTW (TN2-BT/IT用)  
防水套



TN2-GR  
圓形護蓋



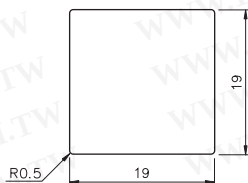
TN3-GR  
圓形護蓋



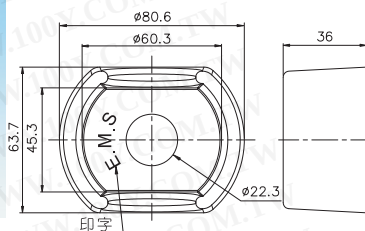
Ø22/Ø25/Ø30標示貼紙

## ■ 開關盒專用背膠貼紙

TBP、TBM



TN2-EA (連鎖式護座無印字)  
TN2-EB (連鎖式護座)



## ● 按鈕及照光式按鈕、指示燈用

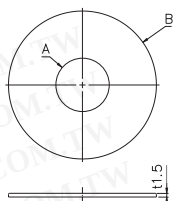
|        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| TBP-01 | TBP-02 | TBP-03 | TBP-04 | TBP-05 | TBP-06 | TBP-07 | TBP-08  | TBP-09 | TBP-10 | TBP-11 | TBP-12 | TBP-13 | TBP-14 | TBP-15 |
| ○      | I      | II     | III    | IV     | ON     | OFF    | START   | STOP   | UP     | DOWN   | SOURCE | HAND   | AUTO   | RUN    |
| TBP-16 | TBP-17 | TBP-18 | TBP-19 | TBP-20 | TBP-21 | TBP-22 | TBP-23  | TBP-24 | TBP-25 | TBP-26 | TBP-27 | TBP-28 | TBP-29 | TBP-30 |
| FWD    | REV    | CLOSE  | OPEN   | FAST   | SLOW   | RESET  | EM.STOP | 12V    | 24V    | 30V    | 110V   | 220V   | B      | 1      |
| TBP-31 | TBP-32 | TBP-33 | TBP-34 | TBP-35 | TBP-36 | TBP-37 | TBP-38  | TBP-39 | TBP-40 | TBP-41 | TBP-42 | TBP-43 | TBM-01 | TBM-02 |
| 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9       | INCH   | ➡      | B1     | B2     |        | 開      | 關      |
| TBM-03 | TBM-04 | TBM-05 | TBM-06 | TBM-07 | TBM-08 | TBM-09 | TBM-10  | TBM-11 | TBM-12 | TBM-13 | TBM-14 | TBM-15 | TBM-16 | TBM-17 |
| 啓動     | 停止     | 電源     | 手動     | 自動     | 寸動     | 運轉     | 正轉      | 逆轉     | 高      | 低      | 快速     | 慢速     | 連鎖     | 上      |
| TBM-18 | TBM-19 | TBM-20 | TBM-21 | TBM-22 |        |        |         |        |        |        |        |        |        |        |
| 下      | 左      | 右      | 緊急     | 超載     |        |        |         |        |        |        |        |        |        |        |

## ● 選擇開關用

|        |        |        |        |        |        |        |        |         |        |          |        |        |          |        |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|----------|--------|--------|----------|--------|
| TBP-51 | TBP-52 | TBP-53 | TBP-54 | TBP-55 | TBP-56 | TBP-57 | TBP-58 | TBP-59  | TBP-60 | TBP-61   | TBP-62 | TBP-63 | TBP-64   | TBP-65 |
| ○      | II     | ○      | III    | ON     | ON     | ON OFF | REV    | REV OFF | AUTO   | AUTO OFF | START  | UP     | UP OFF   | 1      |
|        |        |        |        | OFF    | ON     | ON     | FWD    | FWD OFF | HAND   | HAND OFF | STOP   | DOWN   | DOWN OFF | 2      |
| TBP-66 | TBP-67 | TBP-68 | TBP-69 | TBP-70 | TBP-71 | TBP-72 | TBP-73 | TBP-74  | TBP-75 | TBP-76   | TBP-77 | TBM-31 | TBM-32   | TBM-33 |
| 1      | 1      | O F    | O N    | O F    | S T    | U P    | U P    | A U     | A O    | F R      | O R    | 手動     | 手動       | 正轉     |
| 0      | 2      | F N    | N N    | F N    | T O    | P      | P F    | T O     | O F    | W E      | F F    | 自動     | 停止       | 逆轉     |
| 2      | 3      |        |        |        |        |        |        |         |        | D V      | V F    |        |          |        |
| TBM-34 | TBM-35 | TBM-36 | TBM-37 | TBM-38 | TBM-39 | TBM-40 | TBM-41 | TBM-42  | TBM-43 | TBM-44   | TBM-45 | TBM-46 |          |        |
| 正轉     | 運轉     | 上      | 上      | 開      | 啓動     | 停止     | 上下     | 上       | 手動     | 手動       | 正轉     | 正轉     |          |        |
| 停止     |        |        | 下      | 關      | 停止     | 啓動     |        | 下       | 自動     | 自動       | 逆轉     | 逆轉     |          |        |
| 逆轉     | 停止     | 下      |        |        |        |        |        |         |        | 停止       |        |        |          |        |

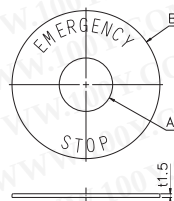
## ■ Ø22/Ø25/Ø30系列控制器材警示牌

警示牌 (黃色)



| 料號        | 品名     | A   | B   |
|-----------|--------|-----|-----|
| TN22E-01  | 22小警示牌 | Ø22 | Ø60 |
| TN25E-01  | 25小警示牌 | Ø25 | Ø60 |
| TN30E-01  | 30小警示牌 | Ø30 | Ø60 |
| TN22EL-01 | 22大警示牌 | Ø22 | Ø90 |
| TN25EL-01 | 25大警示牌 | Ø25 | Ø90 |
| TN30EL-01 | 30大警示牌 | Ø30 | Ø90 |

警示牌 (STOP) (黃色黑字)



| 料號        | 品名           | A   | B   |
|-----------|--------------|-----|-----|
| TN22E-02  | 22小警示牌(STOP) | Ø22 | Ø60 |
| TN25E-02  | 25小警示牌(STOP) | Ø25 | Ø60 |
| TN30E-02  | 30小警示牌(STOP) | Ø30 | Ø60 |
| TN22EL-02 | 22大警示牌(STOP) | Ø22 | Ø90 |
| TN25EL-02 | 25大警示牌(STOP) | Ø25 | Ø90 |
| TN30EL-02 | 30大警示牌(STOP) | Ø30 | Ø90 |

## ■ Ø22/Ø25/Ø30系列控制器材壓克力銘牌 (P) 及鋁銘牌 (M)

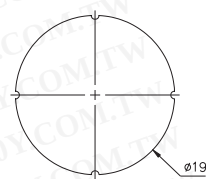
TN22P- (22塑膠銘牌)  
TN25P- (25塑膠銘牌)  
TN30P- (30塑膠銘牌)  
TN22M- (22鋁銘牌)  
TN25M- (25鋁銘牌)  
TN30M- (30鋁銘牌)

| 尺寸    | A     | B    | C    | D    |
|-------|-------|------|------|------|
| 型式    |       |      |      |      |
| TN22P | Ø22.3 | 41   | 32   | 52.5 |
| TN22M | Ø22.2 | 31   | 27   | 42   |
| TN25P | Ø25.5 | 41   | 32   | 52.5 |
| TN25M | Ø24.9 | 31   | 27   | 42   |
| TN30P | Ø30.5 | 41   | 32   | 52.5 |
| TN30M | Ø30.3 | 38.5 | 32.5 | 52   |

|      |       |       |      |      |       |        |        |      |     |     |     |
|------|-------|-------|------|------|-------|--------|--------|------|-----|-----|-----|
| 01   | 02    | 03    | 04   | 05   | 06    | 07     | 08     | 09   | 10  | 11  | 12  |
| ON   | OFF   | START | STOP | UP   | DOWN  | SOURCE | MUNUEL | AUTO | RUN | FWD | REV |
| 13   | 14    | 15    | 16   | 17   | 18    | 19     |        |      |     |     |     |
| OFF  | ON    | ON    | ON   | ON   | OFF   | ON     | FWD    | REV  | FWD | OFF | REV |
| 20   | 21    | 22    |      |      |       |        |        |      |     |     |     |
| STOP | START | MANU  | OFF  | AUTO | 1 0 2 |        |        |      |     |     |     |
| 31   | 32    | 33    | 34   | 35   | 36    | 37     | 38     | 39   |     |     |     |
| 開    | 關     | 啓動    | 停止   | 電源   | 手動    | 自動     | 寸動     | 運轉   |     |     |     |
| 40   | 41    | 42    | 43   |      |       |        |        |      |     |     |     |
| 手動   | 自動    | 手動停止  | 自動   | 逆轉   | 正轉    | 逆轉     | 停止     | 正轉   |     |     |     |
| 51   | 52    | 53    | 54   | 55   | 56    | 57     | 58     | 59   |     |     |     |
| 开    | 关     | 启动    | 停止   | 电源   | 手动    | 自动     | 寸动     | 运转   |     |     |     |
| 60   | 61    | 62    | 63   |      |       |        |        |      |     |     |     |
| 手动   | 自动    | 手动停止  | 自动   | 逆转   | 正转    | 逆转     | 停止     | 正转   |     |     |     |
| 71   | 72    | 73    | 74   |      |       |        |        |      |     |     |     |
| ○    |       |       |      |      | ○     |        |        |      |     |     |     |

## ■ Ø22/Ø25/Ø30按鈕、照光按鈕用透明銘牌

TPP、TPM



勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

|        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| TPP-01 | TPP-02 | TPP-03 | TPP-04 | TPP-05 | TPP-06 | TPP-07 | TPP-08 | TPP-09 | TPP-10 | TPP-11 |
| ○      |        |        |        | IV     | ON     | OFF    | START  | STOP   | UP     | DOWN   |
| TPP-12 | TPP-13 | TPP-14 | TPP-15 | TPP-16 | TPP-17 | TPP-18 | TPP-19 | TPP-20 | TPP-21 | TPP-22 |
| SOURCE | HAND   | AUTO   | RUN    | FWD    | REV    | CLOSE  | OPEN   | FAST   | SLOW   | RESET  |
| TPP-23 | TPP-24 | TPP-25 | TPP-26 | TPP-27 | TPP-28 | TPP-29 | TPP-30 | TPP-31 | TPP-32 | TPP-33 |
| INCH   | 12V    | 24V    | 30V    | 110V   | 220V   | B      | 1      | 2      | 3      | 4      |
| TPP-34 | TPP-35 | TPP-36 | TPP-37 | TPP-38 | TPP-39 | TPP-40 | TPP-41 | TPP-42 | TPP-43 |        |
| 5      | 6      | 7      | 8      | 9      | →      | B1     | B2     | B3     | B4     |        |
| TPM-01 | TPM-02 | TPM-03 | TPM-04 | TPM-05 | TPM-06 | TPM-07 | TPM-08 | TPM-09 | TPM-10 | TPM-11 |
| 開      | 關      | 啓動     | 停止     | 電源     | 手動     | 自動     | 寸動     | 運轉     | 正轉     | 逆轉     |
| TPM-12 | TPM-13 | TPM-14 | TPM-15 | TPM-16 | TPM-17 | TPM-18 | TPM-19 | TPM-20 | TPM-21 | TPM-22 |
| 高      | 低      | 快速     | 慢速     | 連鎖     | 上      | 下      | 左      | 右      | 緊急     | 超載     |