

▶ 16 Ø M6 SERIES

◆ Description/特性:

- Apparent shape:
Round (ϕ 18mm). Square (18 × 18mm). Rectangular (18 × 24mm).
外觀形狀：
圓形 (ϕ 18mm)，正方形 (18 × 18mm)，長方形 (18 × 24mm)
- Install and remove the contact block easily.
接點塊插入與移除容易。
- Gold-clad cross bar contact.
鍍金棒橫條接點。
- Solder/plug-in terminal (#110) and P.C board terminal type.
焊接/插Pin與P.C板用端子。
- Light touch structure.
輕觸式機構。
- Use of High Performance Engineering Plastics.
使用高性能工程塑膠。
- protective grade保護程度:
IP65(IEC Pud 529)
- Accessories are available with Laser marking.
配件可用雷射雕刻記號。



◆ ELECTRICAL RATINGS 電氣額定:

Contact 接點

Rated voltage 額定電壓	250V AC/DC
Rated current 額定電流	5A

Operating Voltage 操作電壓	30V	125V	250V
Operating current(Resistive) 操作電流(電阻性)	AC	*	3A 2A
	DC	2A 0.4A	*

* minimum applicable load(reference value):5V 1mA AC/DC
最小可用負載(參考值)

SPECIFICATIONS 規格

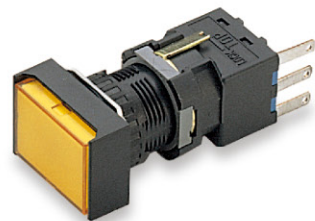
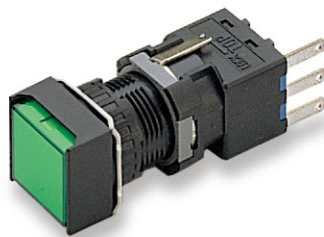
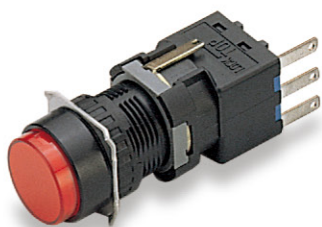
Operating Temperature	-25°C ~ +55°C (Without freezing)
Storage Temperature	-30°C ~ +80°C
Operating Humidity	45 ~ 85% RH
Contact Resistance	50mΩ maximum(initial value)
Insulation Resistance	100MΩ minimum(500V DC megger)
Dielectric strength	Between live part and ground:2500VAC:1minute
	Between terminals of different poles:2500VAC:1minute
	Between terminals of the same poles:1000VAC:1minute
Vibration Resistance	Operating extremes:5~55Hz,Amplitude 1.0mmp-p
	Damage limits:1000m/s ² (Approx:100G)
	Operating extremes:1000m/s ² (Approx:10G)
Mechanical Life (min)	Momentary:2,000,000
	Alternate:250,000
	Selector switch:250,000
Electrical Life (min) (0.5A,110VAC)MAX	Momentary:100,000(1800 operations/hour)
	Alternate:100,000(1200 operations/hour)
	Selector switch:100,000
Protection Degree	IP65(IEC Pud 529)

Lamp 燈泡

Lamp type 種類	Rated voltage 額定電壓	Rated current 額定電流	illumination color 照光顏色
Incandescent lamp(AC/DC) 白熱燈	6V	200mA	*
	14V	80mA	*
	28V	40mA	*
LED lamp (D C) LED 燈	6V	25mA	Red(R) White(W)
	12V	25mA	Green(G) Blue(B)
	24V	25mA	Yellow(Y)
Neon lamp (A C) 霓虹燈	110V	1.2mA	Red(R)
	220V	1.2mA	Green(G)

▶ 16 Ø M6 SERIES

◆ Pilot Lights/指示燈



Type No



1 Shape 形狀

Shape	Code
Round	A
Square	B
Rectangular	C

2 Terminal Style 端子型式

Terminal	Code
Solder/Plug-in	S
PC board	P

3 Lamp 燈泡




Incandescent (AC/DC)		Neon (AC)		LED (DC)	
V	Code	V	Code	V	Code
6V	06	110V	110	6V	06E
14V	14	220V	220	12V	12E
28V	28	*	*	24V	24E

- Neon lamp color : Red (R) Green (G)
- LED lamp color : Red (R) Green (G) Yellow (Y) White (W) Blue (B)

4 Lens Color 色蓋顏色

Color	Code
Red	R
Green	G
Yellow	Y
Orange	O
White	W
Blue	B



Shape	Type No.
 φ 18	M6L-AS <input type="checkbox"/> <input type="checkbox"/>
	M6L-AP <input type="checkbox"/> <input type="checkbox"/>
 18×18	M6L-BS <input type="checkbox"/> <input type="checkbox"/>
	M6L-BP <input type="checkbox"/> <input type="checkbox"/>
 18×24	M6L-CS <input type="checkbox"/> <input type="checkbox"/>
	M6L-CP <input type="checkbox"/> <input type="checkbox"/>



(焊接/插Pin式端子)

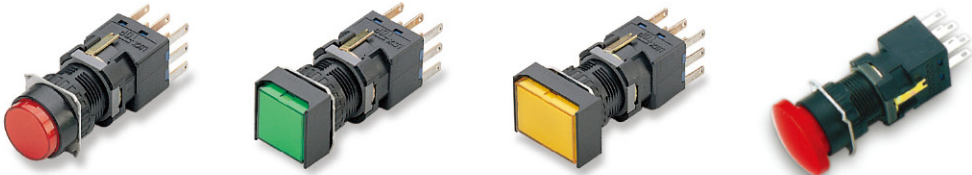
Example: M6L-AS (Round, Solder/Plug-in Terminal, Incandescent lamp 28V, Yellow)

(P.C板用端子)

M6L- BP (Square, P.C board Terminal, LED lamp 6V DC, Red)

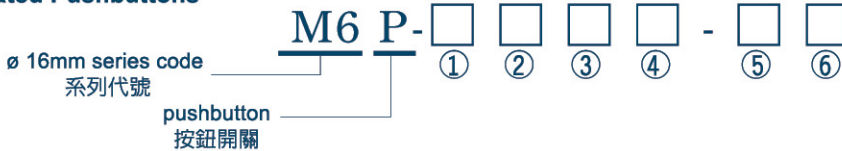
▶ 16 Ø M6 SERIES

◆ Illuminated Pushbuttons/Pushbuttons 照光按鈕/按鈕開關



Type No

● Illuminated Pushbuttons



● Pushbuttons

① Shape 形狀

Shape	Code
Round	A
Square	B
Rectangular	C
Mushroom	D

③ Terminal Style 端子型式

Terminal	Code
Solder/Plug-in	S
PC board	P

④ Contact 接點

Contact	Code
1C	1
2C	2

⑥ Lens Color 色蓋顏色

Color	Code
Red	R
Green	G
Yellow	Y
Orange	O
White	W
Blue	B

② Operation 操作方式

Operation	Code
Momentary 復歸(自復位)	M
Alternate 交替(自鎖)	A

⑤ Lamp 燈泡

Incandescent (AC/DC)		Neon (AC)		LED (DC)	
V	Code	V	Code	V	Code
6V	06	110V	110	6V	06E
14V	14	220V	220	12V	12E
28V	28	*	*	24V	24E

- Neon lamp color : Red (R) Green (G)
- LED lamp color : Red (R) Green (G) Yellow (Y) White(W) Blue(B)

Shape	Operation	Contact	Type No.(Illuminated Pushbuttons)	Type No.(Pushbuttons)
φ 18	Momentary 復歸	1C	M6P-AMS1- □□	M6P-AMS1- □
		2C	M6P-AMS2- □□	M6P-AMS2- □
	Alternate 交替	1C	M6P-AAS1- □□	M6P-AAS1- □
		2C	M6P-AAS2- □□	M6P-AAS2- □
18×18	Momentary 復歸	1C	M6P-BMS1- □□	M6P-BMS1- □
		2C	M6P-BMS2- □□	M6P-BMS2- □
	Alternate 交替	1C	M6P-BAS1- □□	M6P-BAS1- □
		2C	M6P-BAS2- □□	M6P-BAS2- □
18×24	Momentary 復歸	1C	M6P-CMS1- □□	M6P-CMS1- □
		2C	M6P-CMS2- □□	M6P-CMS2- □
	Alternate 交替	1C	M6P-CAS1- □□	M6P-CAS1- □
		2C	M6P-CAS2- □□	M6P-CAS2- □

※This list is only for solder/plug-in terminal type. 此表為焊接/插Pin式端子型式

※The Type No. of P.C board terminal type is as example below. P.C板端子型式編號如下例

Example: M6P-AMS1 - 28 R (焊接/插Pin式端子) M6P-AMS1- R

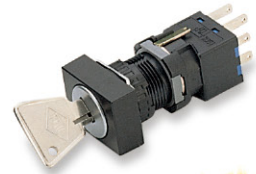
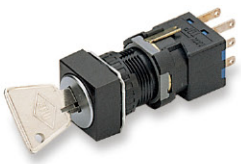
↑ Solder/plug-in terminal ↑

M6P-AMP1 - 28 R (P.C板用端子) M6P-AMP1- R

↑ P.C board terminal ↑

▶ 16 Ø M6 SERIES

◆ Key Selector Switches/鑰匙開關



Type No

Ø 16mm series code 系列代號
 Key Switch 鑰匙開關

M6 K- -

① ② ③ ④ ⑤

① Shape 形狀

Shape	Code
Round	A
Square	B
Rectangular	C

② Operation 操作方式

Position		Code
2 Position 二段	Maintained	20
	Spring return from right	22
3 Position 三段	Maintained	30
	Spring return from left	31
	Spring return from right	32
	2-way Spring return	33

③ Terminal Style 端子型式

Terminal	Code
Solder/Plug-in	S
PC board	P

⑤ Key Removal Position 鑰匙取出位置

Position	Code
	A
	B
	C
	A
	B
	C
	D
	E
	G
	H

④ Contact 接點

Contact	Code
1C	1
2C	2

※ Key is removable at 0 Positions
 鑰匙在0位置可取出

Shape	Position		Contact	Type No.
φ 18	2 Position	Maintained 保持	1C	M6K - <input type="checkbox"/> 20S1 - <input type="checkbox"/>
		Spring return from right 由右自動復歸	2C	M6K - <input type="checkbox"/> 20S2 - <input type="checkbox"/>
	3 Position	Maintained 保持	1C	M6K - <input type="checkbox"/> 22S1 - <input type="checkbox"/>
		Spring return from right 由右自動復歸	2C	M6K - <input type="checkbox"/> 22S2 - <input type="checkbox"/>
18×18	3 Position	Maintained 保持	2C	M6K - <input type="checkbox"/> 30S2 - <input type="checkbox"/>
		Spring return from left 由左自動復歸	2C	M6K - <input type="checkbox"/> 31S2 - <input type="checkbox"/>
	3 Position	Spring return from right 由右自動復歸	2C	M6K - <input type="checkbox"/> 32S2 - <input type="checkbox"/>
		2-way Spring return 雙向自動復歸	2C	M6K - <input type="checkbox"/> 33S2 - <input type="checkbox"/>
18×24	3 Position	Spring return from right 由右自動復歸	2C	M6K - <input type="checkbox"/> 32S2 - <input type="checkbox"/>
2-way Spring return 雙向自動復歸		2C	M6K - <input type="checkbox"/> 33S2 - <input type="checkbox"/>	

※If you don't point out the key removable positions, key removable from all the positions will be furnished as a standard. (cod "A") 若未指定鑰匙取出位置，鑰匙可由任何位置取出，代號 "A"

※This list is only for solder/plug-in terminal type. 此表為焊接/插Pin式端子型式

※The Type No. of P.C board terminal type is as example below. P.C板端子型式編號如下例

Example: M6K - A 20S1 - A
 Solder/plug-in terminal (焊接/插Pin式端子)

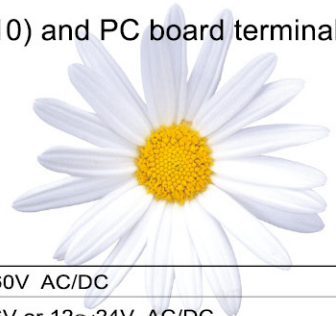
M6K - A 20P1 - A
 P.C board terminal (P.C板用端子)

16 Ø M6 SERIES



◆ Buzzer/蜂鳴器

- Steady sound 連續聲
- Intermittent sound (slow) : 斷續聲(慢)
100 cycles/minute (100 次/分)
- Intermittent sound (Quick) : 斷續聲(快)
600 cycles/minute (600 次/分)
- Sound Pressure: 80dB min (at the rated voltage/0.1m)
聲壓：80dB最低(額定電壓/距0.1m)
- Sound Frequency: 2KHZ±500HZ. 聲頻
- Apparent Shape: 18×24mm
外觀形狀：18×24mm
- Solder/Plug-in terminal (#110) and PC board terminal
焊接/插pin 與PC板用端子



Type No



Insulation Voltage	60V AC/DC
Operating Voltage	6V or 12~24V AC/DC
Current Draw	DC: 7mA AC: 20mA
Sound Frequency	2KHZ ± 500HZ
Flickening Cycle	Slow intermittent sound: 100/minute Quick intermittent sound: 600/minute
Sound Pressure	Steady sound: 80dB minimum (at the rated voltage/0.1m)
Operating Temperature	-20° ~ 55°C (without freezing)
Operating Humidity	45% ~ 85%RH
Insulation Resistance	100MΩ minimum (500V DC megger)
Dielectric Strength	Between live and dead part: 1000 V AC 1minute
Vibration Resistance	Operating extremes:5~55HZ Amplitude 1mm p-p
Shock Resistance	Damage limits: 1000m/sec ² (Approx:100G)
Life	1000 hours minimum

① Rated 額定

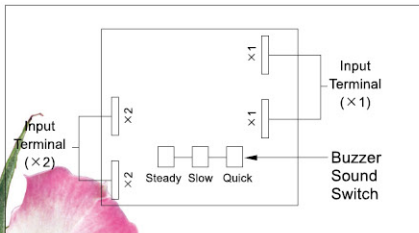
Operating Voltage	Code
6V AC/DC	06
12~24 AC/DC	24

② Terminal Style 端子型式

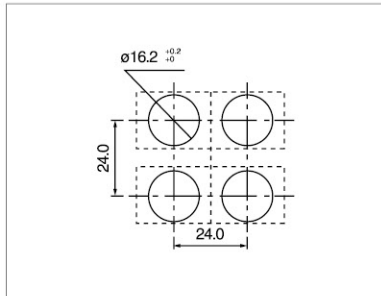
Terminal	Code
Solder/Plug-in	S
PC board	P

Operatig Voltage	Type No.	
	Solder/Plug-in Terminal	PC board Terminal
6V AC/DC	M6Z-06S	M6Z-06P
12~24 AC/DC	M6Z-24S	M6Z-24P

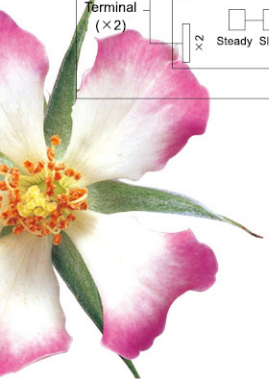
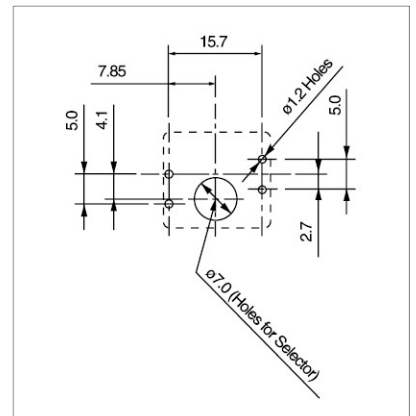
TERMINAL ARRANGEMENT (BOTTOM VIEW)



PANEL CUT-OUT



PC BOARD DRILLING LAYOUT (BOTTOM VIEW)



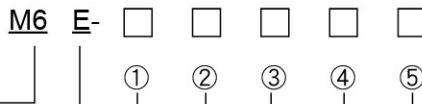
► M6 SERIES Ø16 Emergency Stop Pushbuttons 緊急閉鎖型按鈕開關

Ø16mm series code
系列代號

Emergency Stop Pushbuttons
緊急閉鎖型按鈕開關

P = Positive opening
強制脫離閉鎖型式

S = Solder terminal
焊接端子



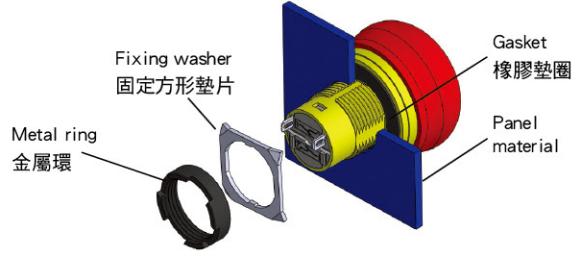
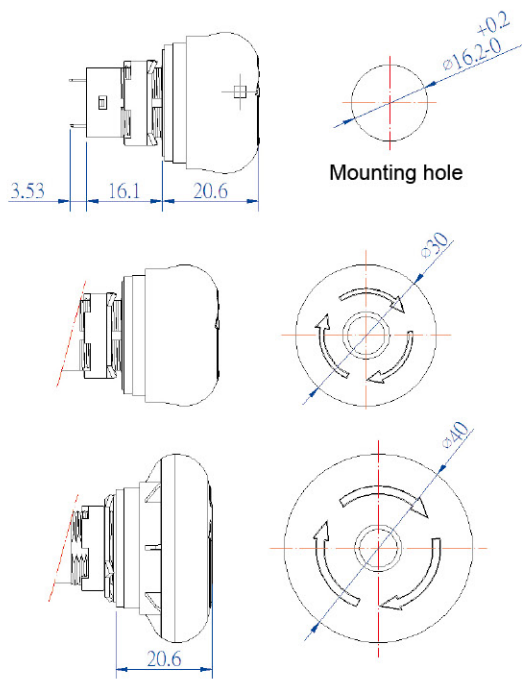
Lens color
色蓋顏色
R = Red 紅色
Y = Yellow 黃色

Button size
30= Ø30mm button
40= Ø40mm button

contact
1=1 NC contact 金接點
2=2 NC contact 金接點











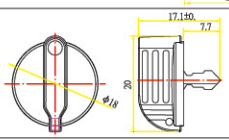

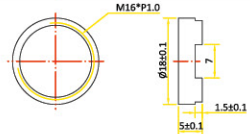
Operating voltage 操作電壓		30V	125V	250V
Operating current 使用電流	AC	—	1.5A	0.75A
Rated lth 額定通電電流	AC	—	—	5A
Operating current 使用電流	DC	1A	—	—

★ Resistive Load



Type No.	Shape	NC contact	Remark
M6E-PS130R M6E-PS230R		1NC 2NC	Ø30 紅色按鈕頭部，一組 NC 金接點 Ø30 紅色按鈕頭部，兩組 NC 金接點 紅色使用於緊急停止操作電路
M6E-PS130Y M6E-PS230Y		1NC 2NC	Ø30 黃色按鈕頭部，一組 NC 金接點 Ø30 黃色按鈕頭部，兩組 NC 金接點 黃色使用於一般停止操作電路
M6E-PS140R M6E-PS240R		1NC 2NC	Ø40 紅色按鈕頭部，一組 NC 金接點 Ø40 紅色按鈕頭部，兩組 NC 金接點 紅色使用於緊急停止操作電路
M6E-PS140Y M6E-PS240Y		1NC 2NC	Ø40 黃色按鈕頭部，一組 NC 金接點 Ø40 黃色按鈕頭部，兩組 NC 金接點 黃色使用於一般停止操作電路

◆ ACCESSORIES / 配件

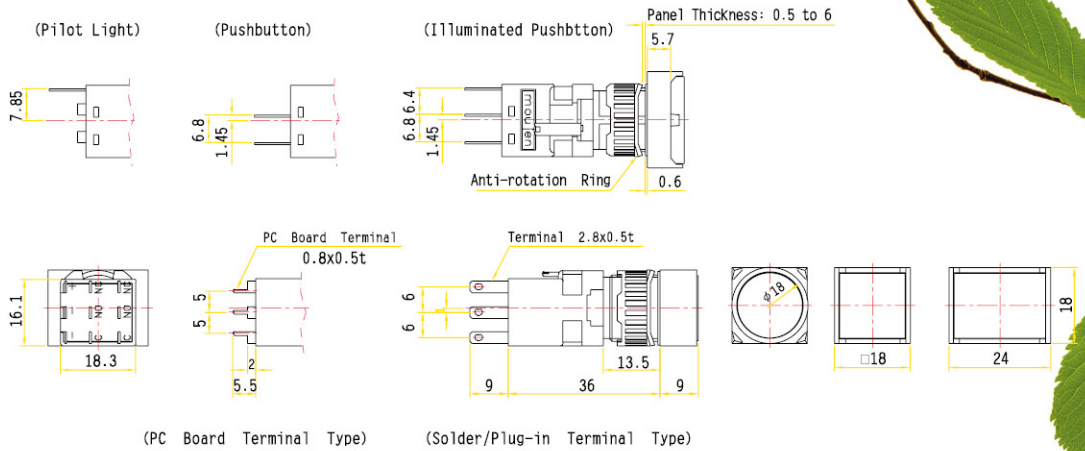
Category	Shape	Type No.	Function.	Specifications	
Incandescent Lamp 白熱燈		L-06	6V AC/DC	200mA	
		L-14	14V AC/DC	80mA	
		L-28	28V AC/DC	40mA	
LED Lamp LED 燈		L-06E <input type="checkbox"/>	6V DC	25mA	Color: Red (R)
		L-12E <input type="checkbox"/>	12V DC	25mA	Green (G) Yellow (Y)
		L-24E <input type="checkbox"/>	24V DC	25mA	White(W)
Fill in the color code in <input type="checkbox"/> (在 <input type="checkbox"/> 內填入顏色代號)					
Neon Lamp 霓虹燈		L-110 <input type="checkbox"/>	110V AC	1.2mA	Color: Red (R)
		L-220 <input type="checkbox"/>	220V AC	1.2mA	Green (G)
Fill in the color code in <input type="checkbox"/> (在 <input type="checkbox"/> 內填入顏色代號)					
Protection Cap 保護蓋 Available with Laser Marking (custom made) 雷射雕刻記號 (訂製品)		M-261	for round and square head push buttons		
		M-262	for rectangular head push buttons		
Dust-Proof Cover 防塵蓋		M-270	for round head push buttons		
		M-271	for square head push buttons		
		M-272	for rectangular head push buttons		
Terminal Cover 端子蓋		M-232	protection contacts against touching		
Plastic Covered Key 防觸電頭蓋型鑰匙		M-162			
Metal Threaded Ring 金屬鎖定螺母		M-029			

▶ 16 Ø M6 SERIES

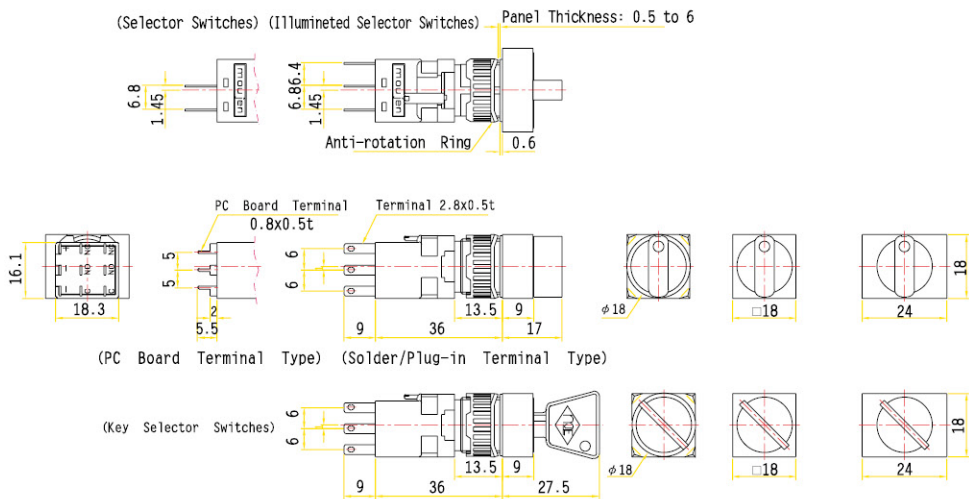
Category	Shape	Type No.	Function. Specifications	
Mounting Wrench 螺帽取置器		M-030	Used for tightening the nut.	
Lens Removing 色蓋夾		M-170	Used for replacing the color lens.	
Lamp Extractor 燈泡取置器		M-230	Used for replacing the lamp.	
Color Lens 色蓋		M-218A <input type="checkbox"/>	<p>◎Fill in the color code in <input type="checkbox"/></p> <p>(在<input type="checkbox"/>內填入顏色代號)</p> <p>Available with Laser Marking(custom made) 雷射雕刻記號(訂製品)</p> <p>Color: R.G.Y.O.W.B Red (R). Green (G). Yellow (Y) Orange (O). White (W). Blue (B).</p>	
		M-218B <input type="checkbox"/>		
		M-218C <input type="checkbox"/>		
		M-218D <input type="checkbox"/>		Opaque (不透明) Color: R.G.Y
		M-218E <input type="checkbox"/>		Transparent (透明) Color: R.G.Y
Marking Plate 銘板		M-217A <input type="checkbox"/>	<p>◎Fill in the marking in <input type="checkbox"/></p> <p>(在<input type="checkbox"/>內填入標示記號)</p> <p>Available with Laser Marking(custom made) 雷射雕刻記號(訂製品)</p> <p>Markings: ON. OFF. START. STOP. UP. DOWN. 記號 FWD. REV. AUTO. MAN. POWER. RESET. ↑ ↓ ← →</p>	
		M-217B <input type="checkbox"/>		
		M-217C <input type="checkbox"/>		

◆ DIMENSIONS / 尺寸

A. Pilot/Lights. Pushbuttons. Illuminated Pushbuttons. 指示燈 按鈕 照光按鈕



B. Selector. Switches. Illuminated Selector Switches. Key Selector Switches. 選擇開關 照光選擇開關 鑰匙開關



C. Switch Unit. 開關單元



▶ 16 Ø M6 SERIES

◆ DIMENSIONS / 尺寸

Terminal Arrangement (Bottom View) 端子排列 (底部視圖)

Pilot Light	Illuminated Pushbutton Illuminated Selector Switch Illuminated Emergency Stop Switch	Pushbutton Selector Switch Key Selector Switch Emergency Stop Switch
	<p>2C Type</p>	<p>2C Type</p>
	<p>1C Type</p>	<p>1C Type</p>

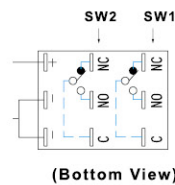
P.C Board Drilling Layout (Bottom View) PC板鑽孔配置 (底部視圖)

Pilot Light	Illuminated Pushbutton Illuminated Selector Switch Illuminated Emergency Stop Switch	Pushbutton Selector Switch Key Selector Switch Emergency Stop Switch

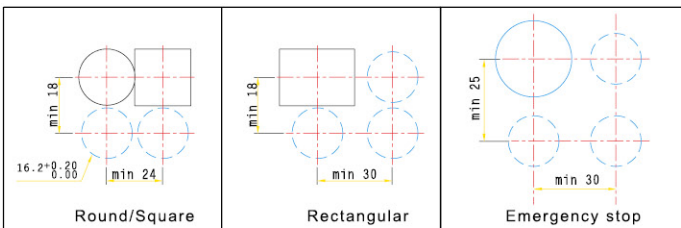
Operating Position/Contact Position (Selector switches and Key Switches)

操作位置/接點位置 (選擇開關及鑰匙開關)

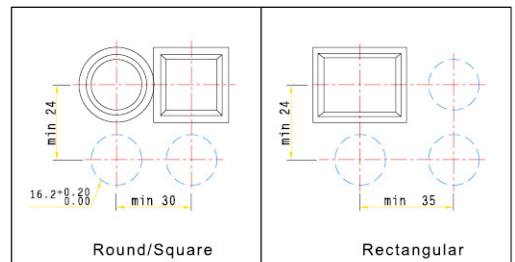
2 Position		3 Position	
1C	2C (SW1) (SW2)	2C	(SW1) (SW2)



Panel Cut-Out 面板切割



Panel Cut-Out (Use Dust-Proof Cover) 面板切割 (使用防塵套)



請考慮操作功能再確定安裝間距