

賀電
NHD

CONTROL UNITS



MIRDC
ISO 9001

3A6Y013



EC Declaration
of Conformity



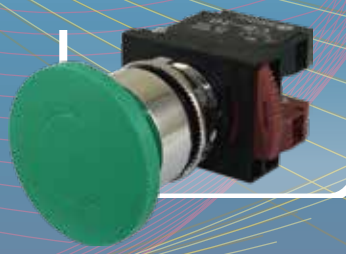
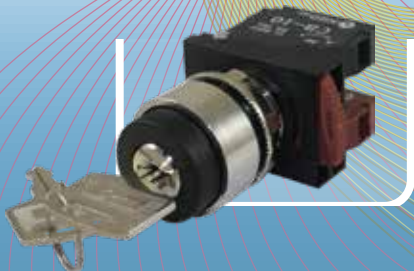
TÜV



A004239



UL[®] US
E239743



PUSH BUTTON SWITCHES／按鈕開關 22Φ／25Φ

(NON-ILLUMINATED&LED ILLUMINATED)／無照光按鈕與照光按鈕

Model Designation :

型號說明

NPBM22-F11GA

1 2 3 4 5

1.Series(系列)

NPBM22	Non-Illuminated 無照光式按鈕	Metal
NLBM22	Led Illuminated 照光式按鈕	金屬款

2.Type(型式)

NPBM22		NLBM22	
F	Flush Head 平頭	F	Flush Head 平頭
E	Elevation Head 凸頭	E	Elevation Head 凸頭
M	Mushroom Head 大頭(40Ø)	M	Mushroom Head 大頭(40Ø)
L	Flush Head Push-push to release 平頭停置	L	Flush Head Push-push to release 平頭停置
P	Projecting Head Push-push to release 凸頭停置	P	Projecting Head Push-push to release 凸頭停置
G	Mushroom Head Push-push to release 大頭停置(40Ø)	G	Mushroom Head Push-push to release 大頭停置(40Ø)
R	Twist To Release Mushroom Head (40Ø) 大頭連鎖式(40Ø)	R	Twist To Release Mushroom Head (40Ø) 大頭連鎖式(40Ø)
T	Twist To Release Mushroom Head (40Ø) 大頭連鎖式(40Ø)	T	Twist To Release Mushroom Head (40Ø) 大頭連鎖式(40Ø)
K	Mushroom Head (40Ø) (With key) 大頭附鎖(40Ø)		
J	Twist To Release Mushroom Head (40Ø) 大頭連鎖式(40Ø)		
I	Twist To Release Mushroom Head (40Ø) 大頭連鎖式(40Ø)		
M6	Mushroom Head 大頭(60Ø)		

3.Contact Blocks(接點)

10	1a	21	2a1b
01	1b	12	1a2b
11	1a1b	22	2a2b
20	2a	02	2b

4.Color(顏色)

NPBM22		NLBM22	
R	Red 紅色	R	Red 紅色
G	Green 綠色	G	Green 綠色
Y	Yellow 黃色	Y	Yellow 黃色
S	Blue 藍色	S	Blue 藍色
B	Black 黑色	W	White 白色
W	White 白色		

5.Voltage Rating(電壓)

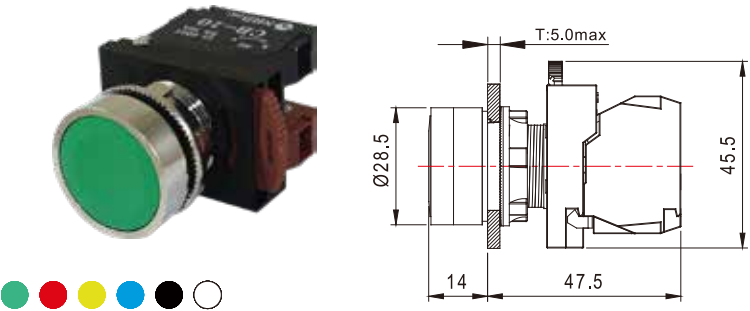
NLBM22 / NLB22	
A	AC.DC 24V
E	AC.DC 100~120V
I	AC.DC 220~240V
Y	AC.DC 12V

NPB22		NLB22	
DM	Double Push Button 兩點式按鈕	DM	Double Push Button 兩點式按鈕

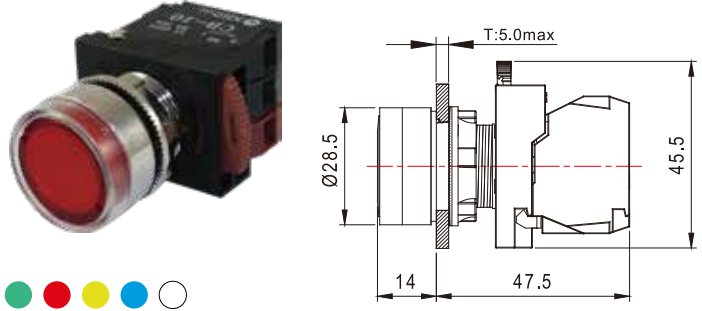
SPECIFICATION

Unit (單位) : mm

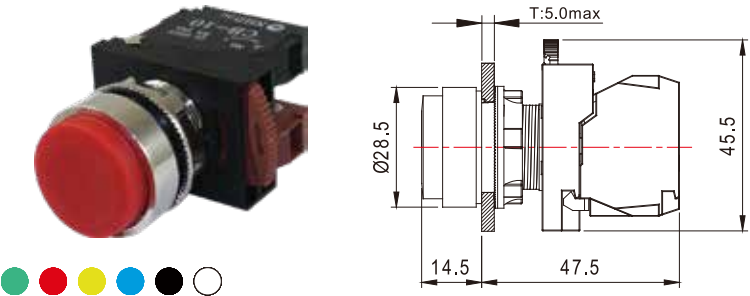
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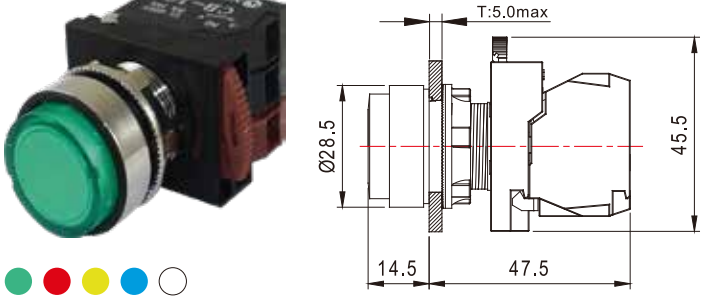
NLBM22-F



NPBM22-E



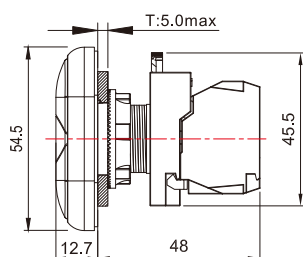
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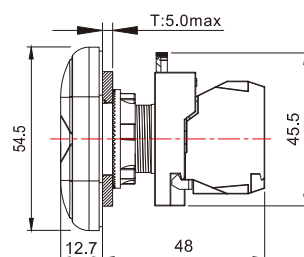
PUSH BUTTON SWITCHES / 按鈕開關 22Φ / 25Φ

(NON-ILLUMINATED & LED ILLUMINATED) / 無照光按鈕與照光按鈕

NPB22-DM



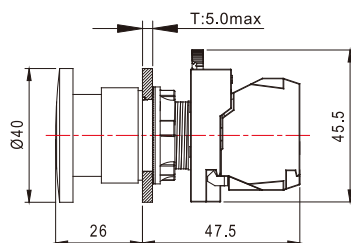
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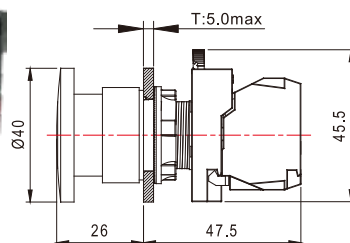
For BA9-G、R、Y、S、W



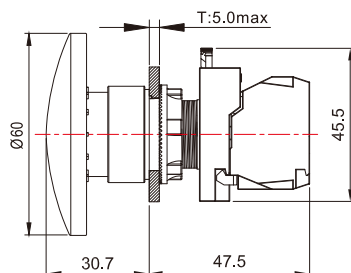
NPBM22-G



NLBM22-M

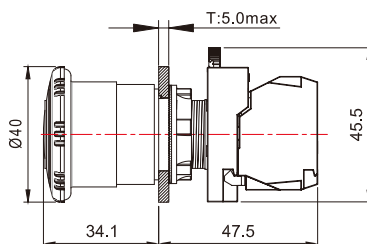


NPBM22-M6

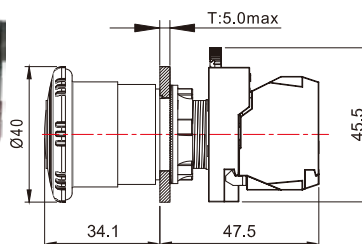


Emergency Stop / 緊急停止按鈕系列

NPBM22-T

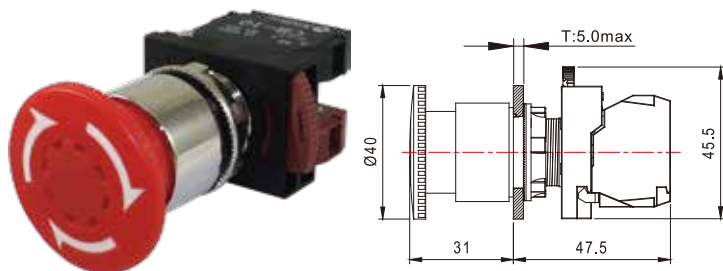


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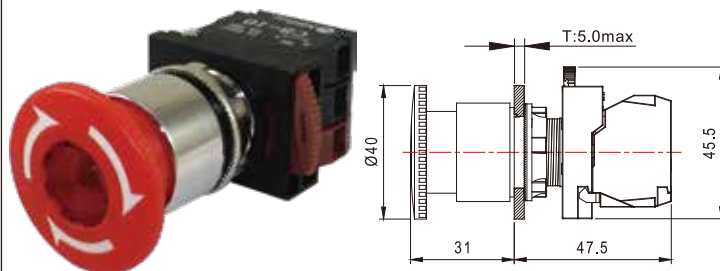


Emergency Stop / 緊急停止按鈕系列

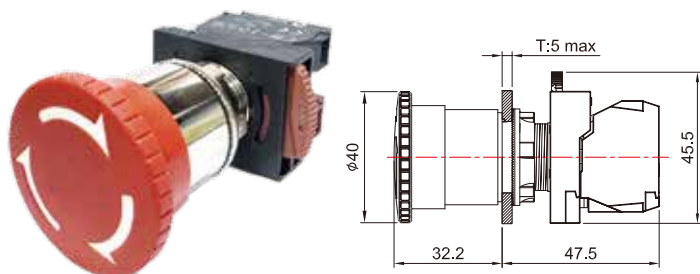
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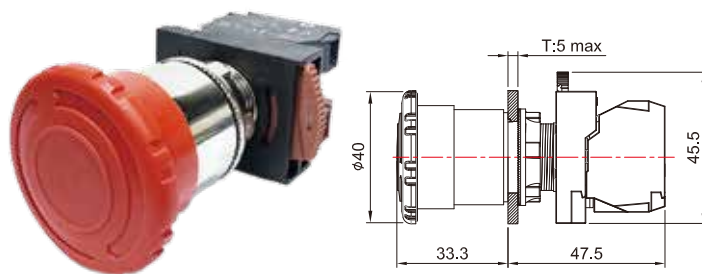
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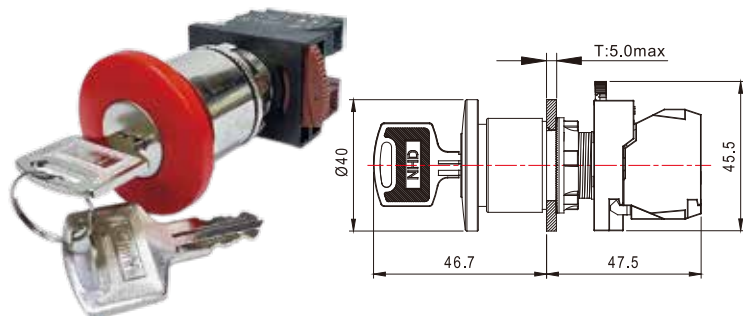
NPBM22-J



NPBM22-I



NPBM22-K



SELECTOR SWITCHES／選擇開關 22Φ／25Φ

(NON-ILLUMINATED & LED ILLUMINATED)／無照光金屬選擇與照光金屬選擇

Model Designation :
型號說明

NSSM22-S211GA2
1 2 3 4 5 6 7

1. Series (系列)

NSSM22	Non-Illuminated 無照光式選擇開關	Metal 金屬款
NLSM22	Led Illuminated 照光式選擇開關	

2. Type (型式)

NSSM22		NLSM22	
S	Normal Shaft 標準選擇	S	Normal Shaft 標準選擇
L	Long Shaft 長柄選擇	L	Long Shaft 長柄選擇
K	Key 鑰匙選擇		

3. Position (方位)

2	2 Position 90° 2段選擇90°	
1	2 Position 90° (Spring Return) 2段選擇復歸型90°	
3	3 Position 45° 3段選擇45°	
0	3 Position 45° (Spring Return) 3段選擇復歸型45°	
4	3 Position 45° (Spring Return From Left) 3段選擇左邊復歸型45°	
5	3 Position 45° (Spring Return From Right) 3段選擇右邊復歸型45°	
6	2 Position 90° (Signal continuous) 2段開關訊號連續型90°	

4. Contact Blocks (接點)

10	1a	21	2a1b
01	1b	12	1a2b
11	1a1b	22	2a2b
20	2a	02	2b

5. Color (顏色)

NSSM22		NLSM22	
R	Red 紅色	R	Red 紅色
G	Green 綠色	G	Green 綠色
Y	Yellow 黃色	Y	Yellow 黃色
B	Black 黑色	W	White 白色
W	White 白色		

6. Voltage Rating (電壓)

NLSM22	
A	AC,DC 24V
E	AC,DC 100~120V
I	AC,DC 220~240V
Y	AC,DC 12V

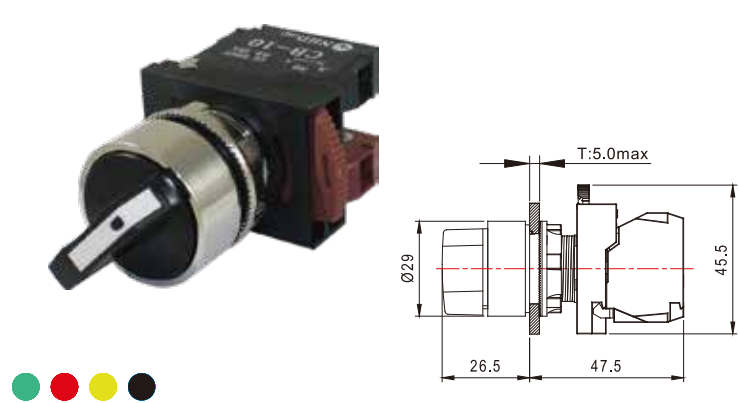
7. NSSM22-K positions of removing the key (鑰匙抽出方向)
V: Remove key(抽出鑰匙)

code 代碼	3 position 3段選擇			2 position 2段選擇	
	left 左	center 中	right 右	left 左	right 右
0		V			
1	V	V			
2		V	V		
3	V	V	V		
4	V			V	
5			V		V
6	V		V	V	V

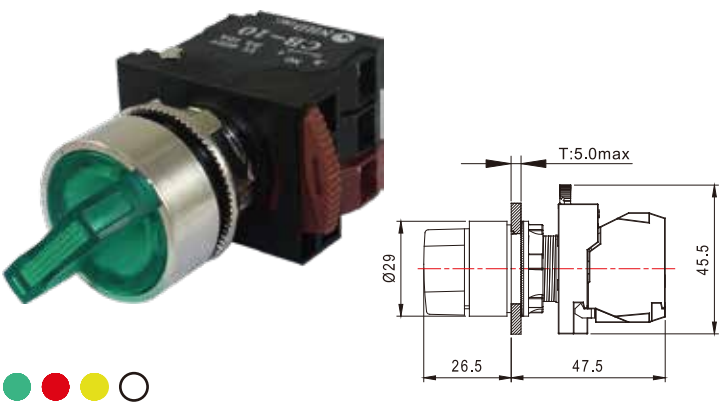
SPECIFICATION

Unit (單位) : mm

NSSM22-S2



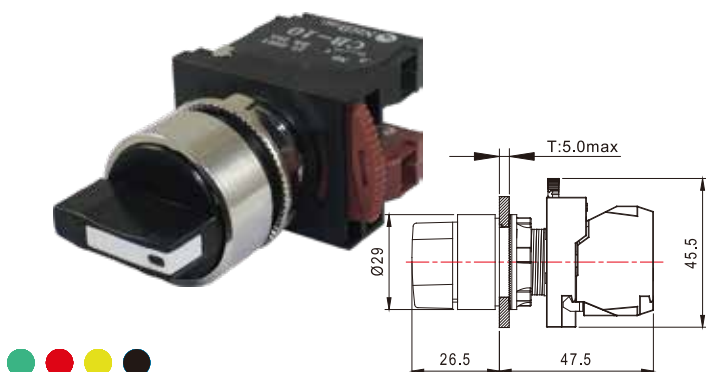
NLSM22-S2



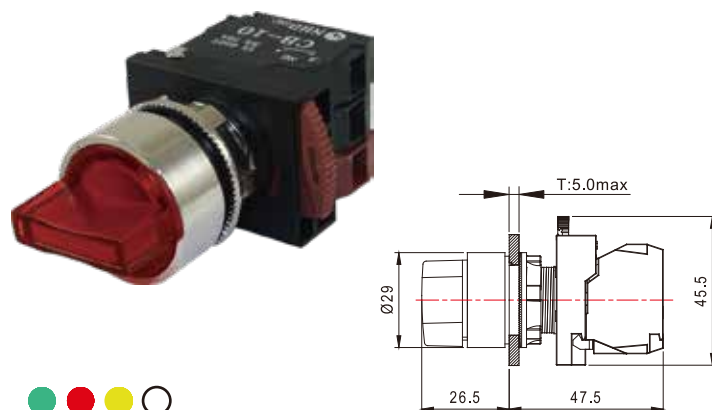
SELECTOR SWITCHES / 選擇開關 22Φ / 25Φ

(NON-ILLUMINATED & LED ILLUMINATED) / 無照光選擇與照光選擇

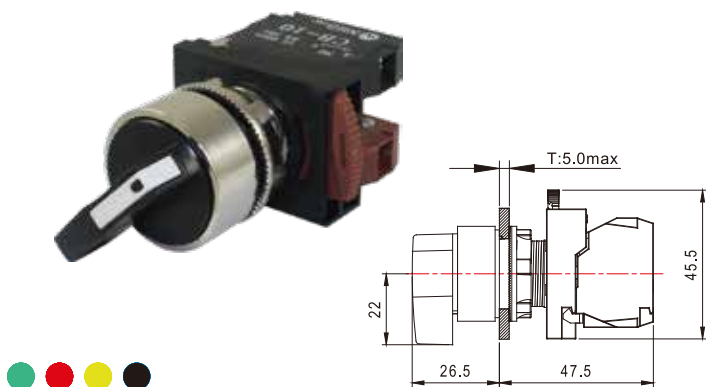
NSSM22-S3



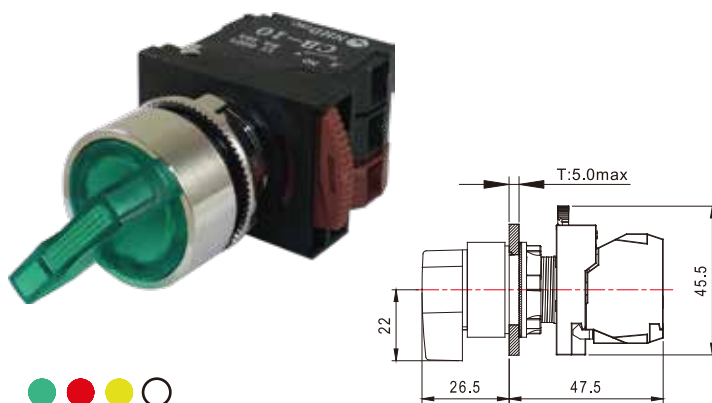
NLSM22-S3



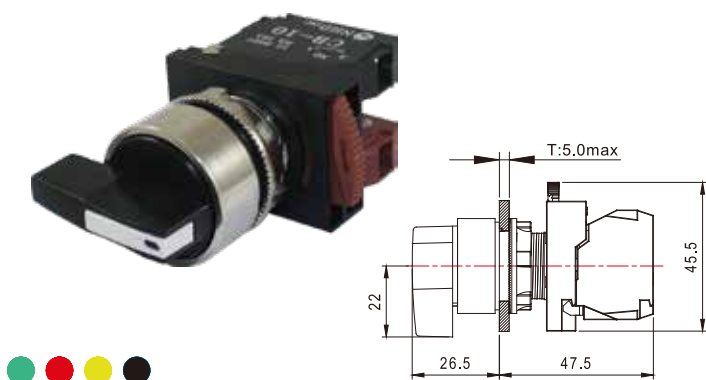
NSSM22-L2



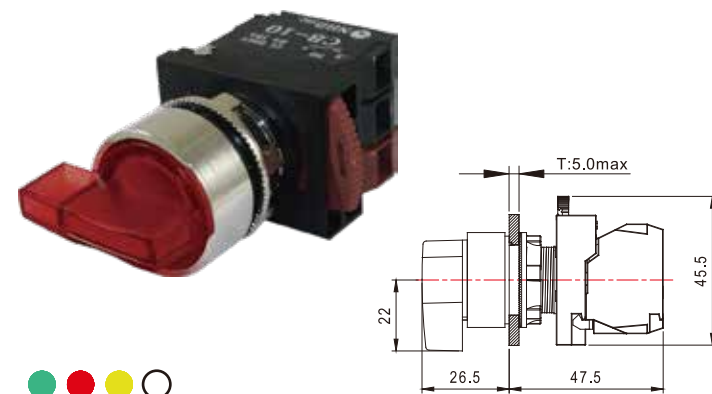
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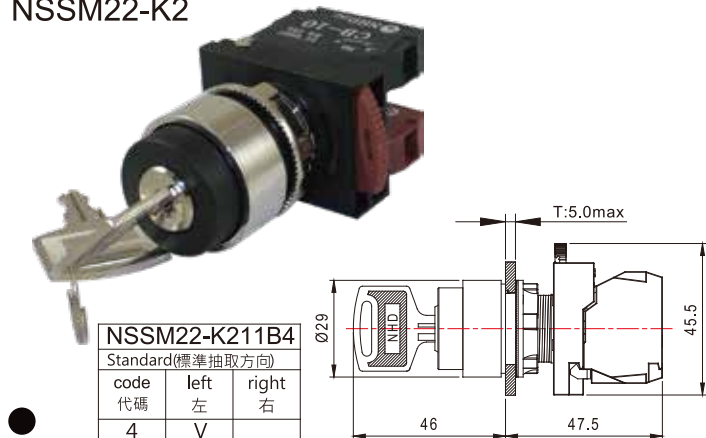
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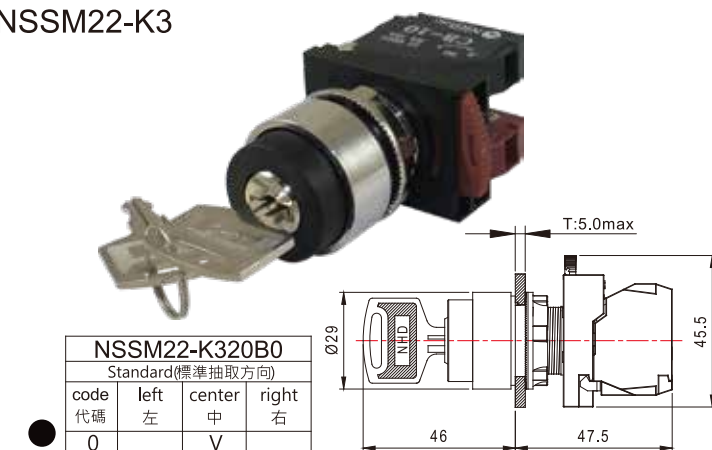
NLSM22-L3



NSSM22-K2

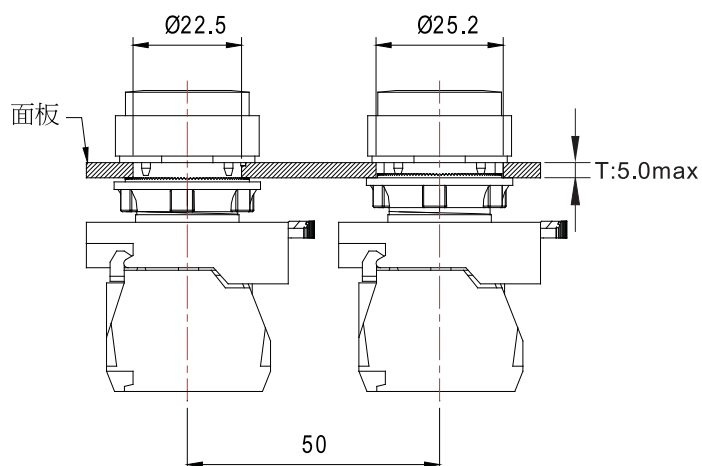
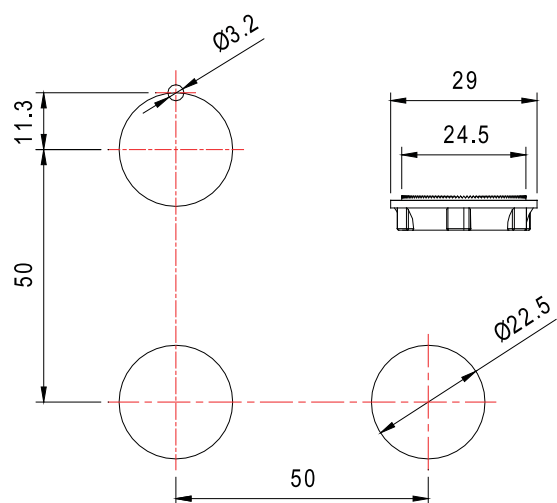


NSSM22-K3



Mounting Hole Layout

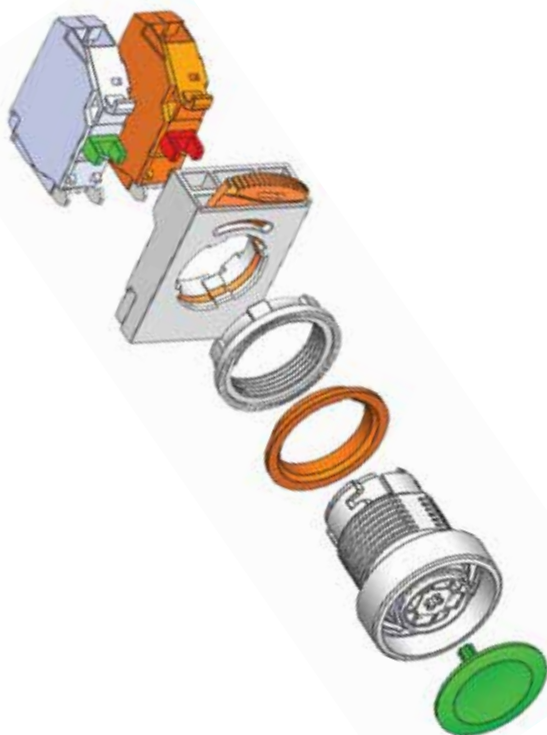
安裝說明



Unit(單位):mm

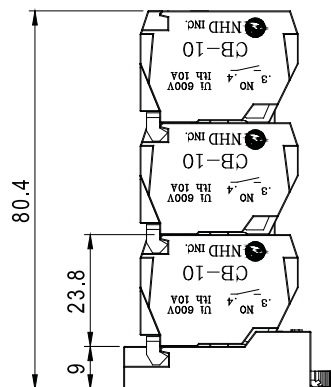
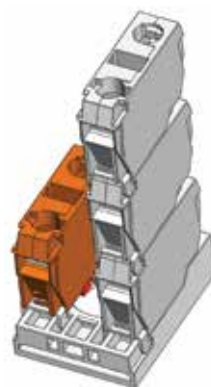
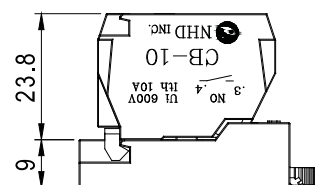
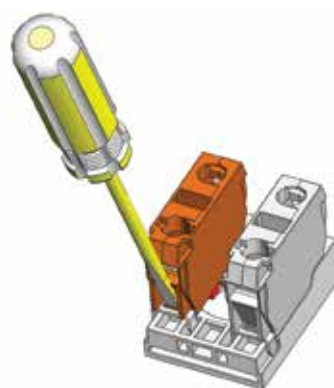
Exploded Views

分解圖



Contacts Mounting And Remove

接點拆卸圖



Unit(單位):mm

22Φ CONTROL UNITS FEATURES AND CHARACTERISTICS 特性表

接觸阻抗 Contact Resistance	50 mΩ以下 less than 50 mΩ
絕緣阻抗 Insulation Resistance	500V DC電壓下,100MΩ以上 Over 100MΩ at 500V DC
耐電壓 Dielectric Strength	AC 2500V之測試電壓1分鐘,無短路,破壞,燒毀等異常現象 Test with AC 2500V for one min. without short circuit, breaks, burns or anything unusual.
耐衝擊 Shock Resistance	500 m/s ²
耐振動 Vibration Resistance	10~55Hz 複振幅0.1mm Total Amplitude 0.1mm, 10~55Hz.
動作頻率 Operation Frequency	1800次/小時 1800 times/ hour
機械壽命 Mechanical Durability	100萬次以上 Over one million times
電氣壽命 Electrical Durability	10萬次以上 Over one hundred thousand times
螺絲扭力 Screw Torque	0.8 N-m保持5秒鐘不得破損 0.8 N-m for five seconds without any fracture.
牙圈扭力 Tightening Torque	2.5 N-m保持1分鐘不得破損 2.5 N-m for one min. without any fracture.
保存溫度 Storage Temperature	-20~80°C (-4~176°F)
使用溫度 Operating Temperature	-20~70°C (-4~158°F)
相對溼度 Relative Humidity	45~85% RH
額定絕緣電壓 / 額定電流 Rated Insulation Voltage / Thermal Current	Ui : 600V / Ith : 10A
耐濕性 Humidity- Resistance	在溫度40±2°C (104±35°F),相對溼度90~100%狀態下,放置48小時後,擦乾水滴於5分鐘內測試絕緣體電阻3MΩ以上,接觸電阻5mΩ以下,耐電壓亦符合規定,且無機械故障。 Leave one unit in ambient temprature of 40±2°C (104±35°F) with relative humidity of 90~100% for 48 hours, then dry and test it in 5 minutes. The results have to be: *Insulation Resistance: over 3MΩ *Contact Resistance: less than 5mΩ *Dielectric Strength: fit with its testing standard *No Mechanical failure

CSA Certified 2718965

Applicable Requirements



CSA Standard C22.2 No. 0-10 - General Requirements - Canadian Electrical Code, Part II

CSA Standard C22.2 No. 14-13 - Industrial Control Equipment

UL File NO. E239743



USR - Indicates evaluation to UL 508, Seventeenth Edition, the Standard for Industrial Control Equipment.

CNR indicates investigation to CAN/CSA C22.2 No. 14-05, the Standard for Industrial Control Equipment.

USR, CNR - Pushbutton Switches and Pilot Lights for Industrial Use,

Series NPB22, NLB22, NSS22, NLS22, NPL22, NLD22, NPB22M, NLB22M, NSS22M and

NLS22M followed by additional characters.

TÜV Rheinland Group

License No. R50202326

EN 60947-1 : 2007

EN 60947-5-1 : 2004+A1

License No. R50204143

EN 60947-1 : 2007

EN 60947-5-1 : 2004+A1

EN 60947-5-5 : 1997+A1



The standards and technical requirements for the products

GB 14048.5-2017

(REF NO.CNCA-C03-02 : 2014)



A004239