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CX169-LA38 系列按钮开关

CX169-LA38 Series button switch

概述 General



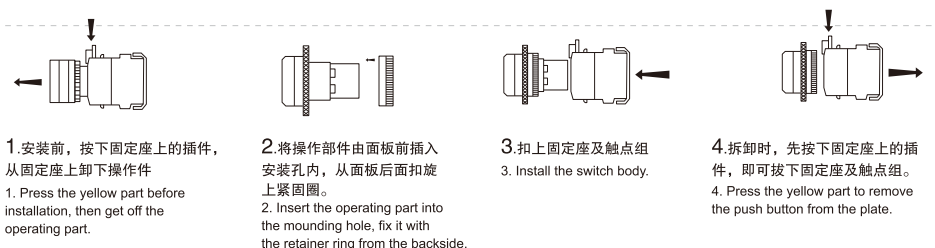
LA38系列产品，操作部分与中座连续采用了大跨距多点卡位，高壁直插式固定安装方式，抗冲击、抗跌落、抗振动，适合在各种恶劣环境中使用。

安装方便：

由操作部分、连接部分、触点部分组成，采用先进的无紧固件自锁联接，安全可靠，拆装高效快捷，凸现人性化的设计思路。多功能的固定螺母，无需增加任何附件即可直接安装在 $\phi 22\text{mm}$ 或 $\phi 30\text{mm}$ 的安装面板上，扳手安装档使安装更加坚固可靠。

LA38 series is a easy-install type push button switch, it can be used in terrible condition because of it's anti-shock function.

It is composed of operating part, connection part and switch body. Self-locking connection without fastener. Safe and reliable, humanized design makes it easy to get off. With the multifunctional nut, the switch can be installed on the 22mm and 30mm plate without other accessory.



性能特征

Specification

工作环境温度 Operating temperature		-25℃~+55℃ (无须冻) (No freezing) 照明开关本体周围必须空气流通 Keep the air flowing.
工作环境湿度 Operating humidity		45~85%RH (无结露) 45~85%RH (no condensation)
触点材料 Contact material		银 Silver 银合金 Silver alloy 银镀银，镀层厚4 μm Cladding thickness is 4 μm
接触电阻 Contact resistance		$\leq 30\text{m}\Omega$
绝缘电阻 Insulation resistance		$\geq 100\text{m}\Omega$
最高耐压 Maximum voltage		3000伏，交流50赫兹 3000V, AC50Hz
耐振动性 Vibration resistance		50赫兹，振幅约1.0mm 50Hz, Amplitude is about 1.0mm
耐冲击性 Shock resistance		> 10g
寿命 Life	机械 Mechanical	自复钮：200万次以上，自锁钮、选择钮：100万次以上 Momentary:>2,000,000 times; Maintained, selector:>1,000,000 times; Key-lock, emergency:>1,000,000times
	电气 Electrical	50万次以上 More than 500,000 times
接线 Terminal		螺钉连接，线直径：2 $\times$ 1.5mm最大 接线插片：6.3 $\times$ 0.8mm Screw terminal; connecting ability: max:2x1.5mm ² Wiring plug: 6.3x0.8mm
操作 Operation		操作力：800gf~2200gf，依开关元件数量而定 Operating force: 800gf~2200gf, according to the quantity of switch elements 操作行程：约5.5mm (按钮) Operating distance : about 5.5mm(button)

防护等级

Protective degree

常规配置为IP40，要根据客户的不同使用需求，设计了内置式高级别防护功能，防护等级达到了IP65。

Normally IP40, but can be IP65 with internal set if needed.

CX169-LA38 系列按钮开关
CX169-LA38 Series button switch

产品结构图示
Product structure



发光元件规格
Luminous element
specifications

电源类型 power type	双向LED灯头箱式电源 AC/DC LED electrical supply box				
额定电压 Rated voltage	AC/DC 6V	AC/DC 12V	AC/DC 110V	AC/DC 220V	AC/DC 380V
			AC110V	AC220V	AC380V
额定电流 Rated current	≤20mA				
灯珠寿命 Lamp Life	40,000小时 (Hours)				
灯珠颜色 Lamp color	R ● G ● Y ● B ● W ○				

等效电路 Equivalent circuit	AC/DC: (电阻降压) AC/DC:(Resistor step-down)	
	AC: (电容降压) 适用频率: 50~60Hz AC:(Capacitor step-down) Suitable frequency:50~60Hz	

注：该系列均采用电源箱带灯形式，已内置灯珠保护电阻，不需外接。
Note: This series use power box with lamp, with lamp protect resistor inside.

型号说明
Model designation

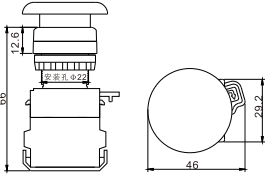
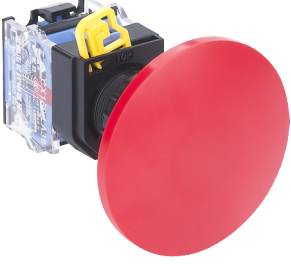
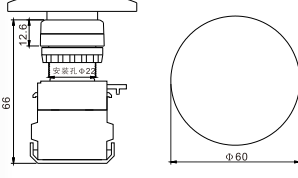
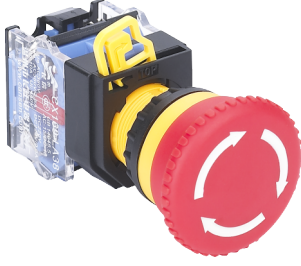
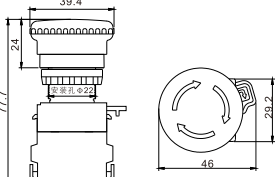
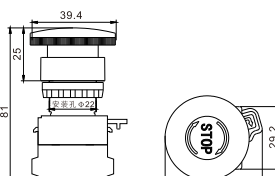
LA38	— □	■	◇ ◆ /	△ /	▲ /	◎
系列号 Code of series	触点结构： 10 NO 01 NC 11 NO+NC 22 2NO+2NC 33 3NO+3NC 44 4NO+4NC 常开常闭触点可根据需要任意组合 Contact structure: 10 NO 01 NC 11 NO+NC 22 2NO+2NC 33 3NO+3NC 44 4NO+4NC Normal closed and normal open can be combined at will	操作类型： GN 自复高钮 BN 自复平钮 BNZS 自锁按钮 X 旋钮 XB 旋柄钮 Y 钥匙钮 MA 蘑菇钮 φ 40 MB 蘑菇钮 φ 60 ZS 急停钮 DN 带灯按钮 DNZS 带灯自锁按钮 E 环形带灯按钮 EZ 环形带灯自锁钮 Operating type: GN Momentary high type BN Momentary flat type BNZS Maintained type X Selector switch XB Long handle selector switch Y Key-lock type MA Mushroom type φ 40 MB Mushroom type φ 60 ZS Emergency type DN Illuminated type DNZS Illuminated maintained type E Ring illuminated type EZ Ring illuminated maintained type	◇表示旋钮和钥匙钮的操作类型： 21 二位置保持式 22 二位置自复式 31 三位置保持式 32 三位置左保持右自复 33 三位置自复式 Express selector and key-lock operating: 21 Two position maintained type 22 Two position momentary type 31 three position maintained type 32 three position left maintained right momentary 33 three position momentary type	带灯部分电压（见“发光元件规格”） Lamp voltage (Please check the lamp rating)	颜色： Color 1 ○ 白 White 2 ● 黑 black 3 ● 绿 Green 4 ● 红 Red 5 ● 黄 Yellow 6 ● 蓝 Blue	防护等级： FP IP65 无字母代表IP40 Protective degree: FP means IP65 No letter means IP40

CX169-LA38 系列按钮开关
CX169-LA38 Series button switch

外形图 Picture	品名 Product name	型号 Mode	颜色 Color	备注 Remarks	外形尺寸 Shape & Dimensions
	自复平钮 Momentary flat push button	LA38-11BN	○ 白 White ● 黑 Black ● 绿 Green ● 红 Red ● 黄 Yellow ● 蓝 Blue	Φ22.3	
	自锁平钮 Maintained flat push button	LA38-11BNZS			
	自复高钮 Momentary high push button	LA38-11GN	○ 白 White ● 黑 Black ● 绿 Green ● 红 Red ● 黄 Yellow ● 蓝 Blue	Φ22.3	
	自锁高钮 Maintained high push button	LA38-11GNZS			
	二位置 Two position 旋钮（可带灯） Selector switch (can be illuminated)	LA38-11X/21	● 黑 Black ● 绿 Green ● 红 Red ● 黄 Yellow	L R 保持式 Maintained	
		LA38-11X/22		L R 复位式 Momentary	
		LA38-20X/31		L C R 保持式 Maintained	
		LA38-20X/33		L C R 自复式 Momentary	
	三位置 Three position 长柄旋钮 Long handle selector switch	LA38-20X/32	● 黑 Black	L C R 左保持式 Left Maintained 右自复式 Right Momentary	
		LA38-11XB/21		L R 保持式 Maintained	
		LA38-11XB/22		L R 复位式 Momentary	
		LA38-20XB/31		L C R 保持式 Maintained	
	三位置 Three position 长柄旋钮 Long handle selector switch	LA38-20XB/33	● 黑 Black	L C R 自复式 Momentary	
		LA38-20XB/32		L C R 左保持式 Left Maintained 右自复式 Right Momentary	
		LA38-11XB/21		L R 保持式 Maintained	
		LA38-11XB/22		L R 复位式 Momentary	

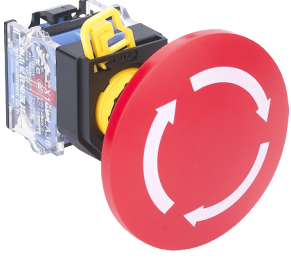
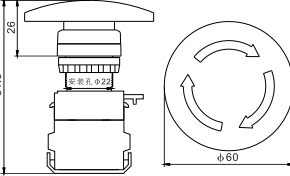
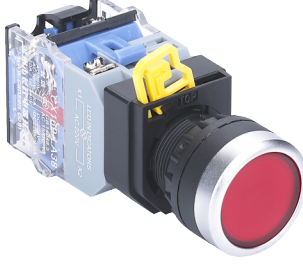
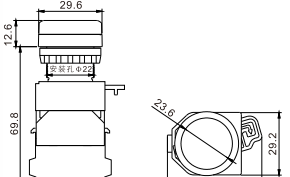
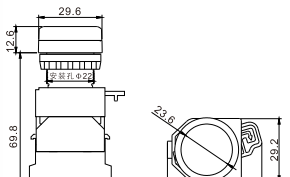
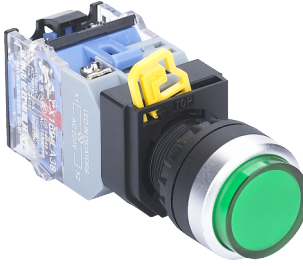
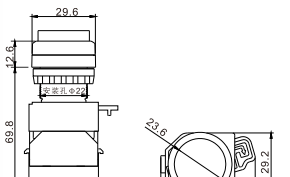
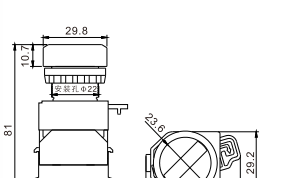
CX169-LA38 系列按钮开关

CX169-LA38 Series button switch

外形图 Picture	品名 Product name	型号 Mode	颜色 Color	备注 Remarks	外形尺寸 Shape & Dimensions
	蘑菇钮 Mushroom push button	LA38-11MA	● 绿 Green	蘑菇头 Mushroom Φ40	
	蘑菇头自锁按钮 Mushroom maintained push button	LA38-11MAZS	● 红 Red ● 黄 Yellow		
	蘑菇钮 Mushroom push button	LA38-11MB	● 绿 Green	蘑菇头 Mushroom Φ60	
	蘑菇头自锁按钮 Mushroom maintained push button	LA38-11MBZS	● 红 Red ● 黄 Yellow		
	急停钮 Emergency push button	LA38-11MAZS	● 绿 Green ● 红 Red	蘑菇头 Mushroom Φ40	
	STOP 急停钮 Emergency push button	LA38-11MAZS/STOP	● 绿 Green ● 红 Red	蘑菇头 Mushroom Φ40	

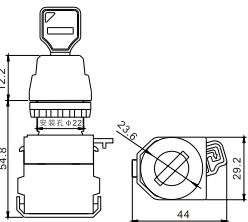
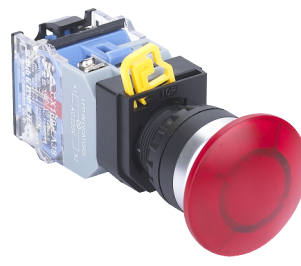
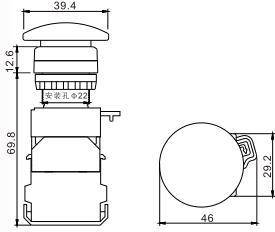
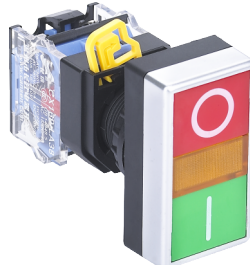
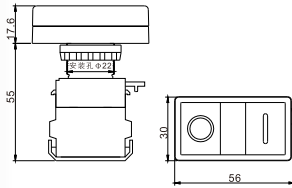
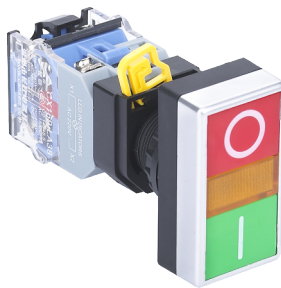
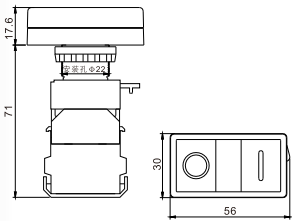
CX169-LA38 系列按钮开关

CX169-LA38 Series button switch

外形图 Picture	品名 Product name	型号 Mode	颜色 Color	备注 Remarks	外形尺寸 Shape & Dimensions
	急停钮 Emergency push button	LA38-11MBZS	● 绿 Green ● 红 Red	蘑菇头 Mushroom Φ60	
	带灯按钮 illuminated push button	LA38-11DN	○ 白 White ● 绿 Green ● 红 Red ● 黄 Yellow ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	带灯自锁按钮 illuminated maintained push button	LA38-11DNZS			
	环形带灯按钮 Ring illuminated push button	LA38-11E	○ 白 White ● 绿 Green ● 红 Red ● 黄 Yellow ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	环形带灯自锁按钮 Ring illuminated maintained push button	LA38-11EZ			
	带灯高钮 illuminated high push button	LA38-11DGN	○ 白 White ● 绿 Green ● 红 Red ● 黄 Yellow ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	带灯自锁高钮 illuminated maintained high push button	LA38-11DGNZS			
	带灯旋钮 illuminated selector switch	LA38-11XD/2	○ 白 White ● 绿 Green ● 红 Red ● 黄 Yellow ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
		LA38-20XD/3			

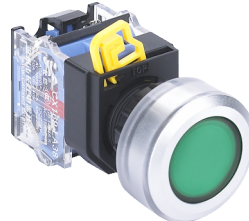
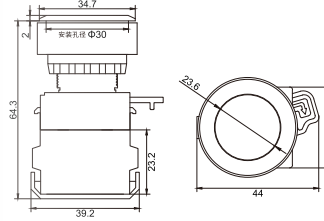
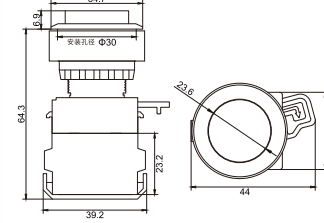
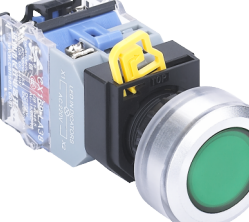
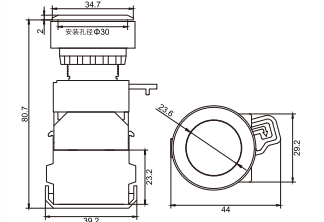
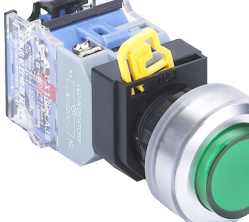
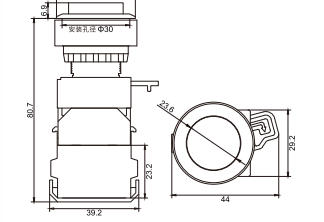
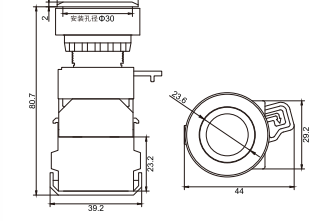
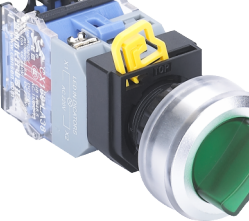
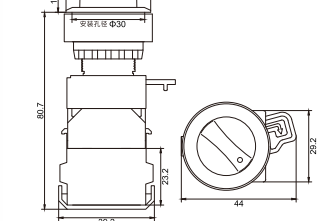
CX169-LA38 系列按钮开关

CX169-LA38 Series button switch

外形图 Picture	品名 Product name	型号 Mode	颜色 Color	备注 Remarks	外形尺寸 Shape & Dimensions
	二位 Two position	LA38-11Y/21	● 绿 Green ● 红 Red ● 黄 Yellow	L R 保持式 Maintained	
		LA38-11Y/22		L R 复位式 Momentary	
	三位 Three position	LA38-20Y/31		L C R 保持式 Maintained	
		LA38-20Y/33		L C R 自复式 Momentary	
		LA38-20Y/32		L C R 左保持式 Left Maintained 右自复式 Right Momentary	
	带灯蘑菇钮 illuminated mush- room push button	LA38-11MAD	● 绿 Green ● 红 Red ● 黄 Yellow	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	带灯蘑菇头 自锁钮 illuminated mush- room maintained push button	LA38-11MADZS			
	双位按钮 Double head momentary push button	LA38-11B	● 绿 Green ● 红 Red	Φ22.3	
	双位带灯按钮 Double head illuminated momentary push button	LA38-11D	● 黄 Yellow	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	

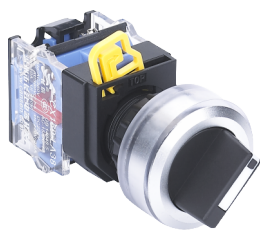
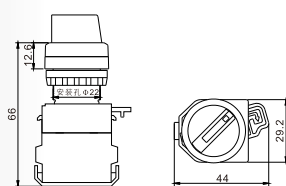
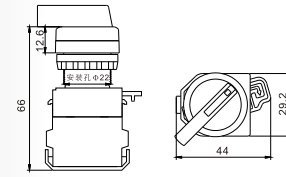
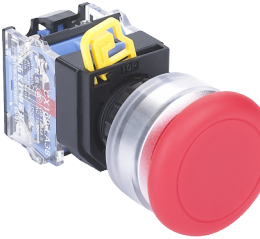
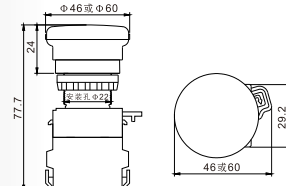
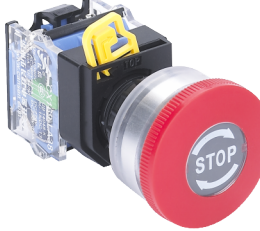
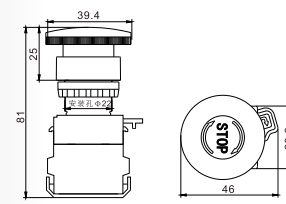
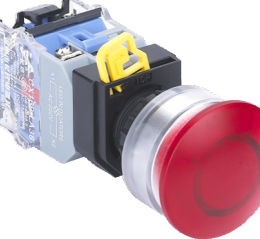
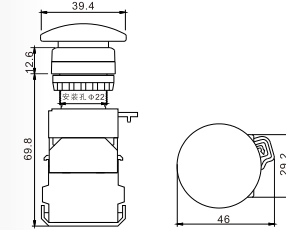
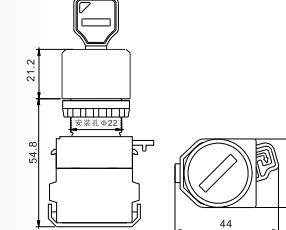
CX169-LA38 系列按钮开关

CX169-LA38 Series button switch

外形图 Picture	品名 Product name	型号 Mode	颜色 Color	备注 Remarks	外形尺寸 Shape & Dimensions
	自复平钮 Momentary flat push button	LA38-11BN/30	● 红 Red ● 绿 Green ● 黄 Yellow ○ 白 White ● 蓝 Blue ● 黑 Black	Φ30	
	自锁平钮 Maintained flat push button	LA38-11NZS/30			
	自复高钮 Momentary high push button	LA38-11GN/30	● 红 Red ● 绿 Green ● 黄 Yellow ○ 白 White ● 蓝 Blue ● 黑 Black	Φ30	
	自锁高钮 Maintained high push button	LA38-11GNZS/30			
	带灯按钮 Illuminated push button	LA38-11DN/30	● 红 Red ● 绿 Green ● 黄 Yellow ○ 白 White ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	带灯自锁按钮 Illuminated maintained push button	LA38-11DNZS/30			
	带灯高钮 Illuminated high push button	LA38-11DGN/30	● 红 Red ● 绿 Green ● 黄 Yellow ○ 白 White ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	带灯自锁高钮 Illuminated maintained high push button	LA38-11DGNZS/30			
	环形带灯按钮 Ring illuminated push button	LA38-11E/30	● 红 Red ● 绿 Green ● 黄 Yellow ○ 白 White ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	环形带灯自锁按钮 Ring illuminated maintained push button	LA38-11EZ/30			
	带灯旋钮 illuminated selector switch	LA38-11XD/2/30	● 红 Red ● 绿 Green ● 黄 Yellow ○ 白 White ● 蓝 Blue	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
		LA38-20XD/3/30			

CX169-LA38 系列按钮开关

CX169-LA38 Series button switch

外形图 Picture	品名 Product name		型号 Mode	颜色 Color	备注 Remarks	外形尺寸 Shape & Dimensions
	二位置 Two position	旋钮 (可带灯) illuminated selector switch	LA38-11X/21/30	● 黑 Black	L R 保持式 Maintained	
			LA38-11X/22/30	● 绿 Green	L R 复位式 Momentary	
	三位置 Three position	LA38-20X/31/30	● 红 Red	L C R 保持式 Maintained		
		LA38-20X/33/30	● 黄 Yellow	L C R 自复式 Momentary		
	二位置 Two position	长柄旋钮 Long handle selector switch	LA38-11XB/21/30	● 黑 Black	L R 保持式 Maintained	
			LA38-11XB/22/30	● 绿 Green	L R 复位式 Momentary	
	三位置 Three position		LA38-20XB/31/30	● 红 Red	L C R 保持式 Maintained	
			LA38-20XB/33/30	● 黄 Yellow	L C R 自复式 Momentary	
	蘑菇钮 Mushroom push button		LA38-11MA/30	● 绿 Green ● 红 Red ● 黄 Yellow	蘑菇头 Φ40	
			LA38-11MB/30		蘑菇头 Φ60	
	蘑菇头自锁按钮 Mushroom maintained push button	LA38-11MAZS/30	蘑菇头 Φ40			
		LA38-11MBZS/30	蘑菇头 Φ60			
	STOP 急停钮 Emergency push button		LA38-11MAZS/ STOP/30	● 绿 Green ● 红 Red		
	带灯蘑菇钮 Illuminated mushroom push button		LA38-11MAD/30	● 绿 Green ● 红 Red ● 黄 Yellow	DC 6V.12V 24V.36V 48V.110V 220V.380V AC 110V.220V 380V	
	带灯蘑菇头自锁钮 Illuminated mushroom maintained push button		LA38-11MADZS/30			
	二位置 Two position	钥匙钮 Key-lock push button	LA38-11Y/21/30		L R 保持式 Maintained	
			LA38-11Y/22/30		L R 复位式 Momentary	
	三位置 Three position		LA38-20Y/31/30		L C R 保持式 Maintained	
			LA38-20Y/33/30		L C R 自复式 Momentary	