

LANBOO | Fall In Love With Things
Industrial Control | Made In China

• LANBOO INTELLIGENT CONTROL TECHNOLOGY
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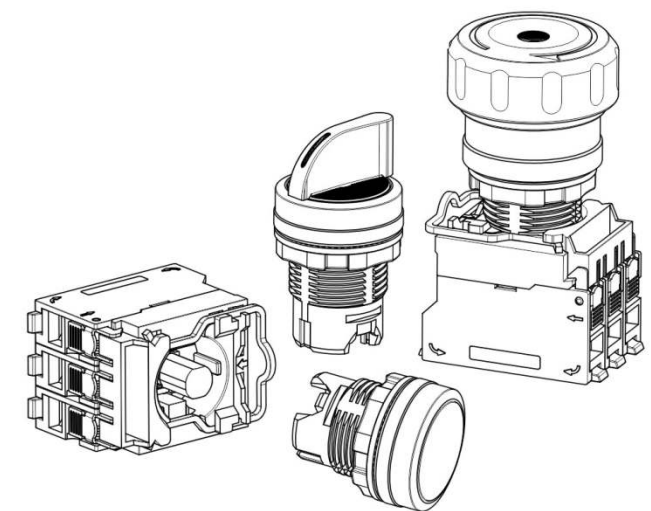
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Qing City,Zhe Jiang province,China



1S
Plug-in



25A
U_i:660V
I_{th}:25A



22mm
Diameter



LED
50000H
LongLifeLED



>0.5 Million Electrical Life
>10 Million Mechanical Life

GLOBAL PIONEER

Push Button、Indicator Light
Plug-in

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Original Spirit

蓝波

LANBOO founded in 2014, Mainly research and development push button, is a professional manufacturers with 11 years of experience, High-quality metal butt-on switch, Indicator light, Emergency stop switch, Key switch, Knob, Buzzer, Rocker switch, Touch switch, Waterproof, Dustproof, Explosion-proof and other functions, can be customized development!

More than 50 national patents and invention patents, through the ISO9001 quality management system certification, Have CE, SGS, CCC, CQC, UL, RoHs, TUV, REACH, CB, UL61058. Rich experience in research and development, lean production, high-level management, sales elite, legal team, to ensure high quality, efficient, excellent service, strive to build a high-quality LANBOO brand.

High-current metal button switch, breakthrough over 25A current unique, leading the forefront. On the way forward, we insist on continuous innovation and creation, and strive to create craftsman products. Through our efforts, become an excellent partner of many wellknown enterprises, Especially become the ODM/OEM supplier of CHINT group!

Our products are sold all over the world, In Europe and the United States market, get consistent high praise by the customers like and praise.

In 2020, 45 million RMB will be invested to purchase a new factory building with a construction area of more than 10,000 m² to improve production capacity again! Registered LANBOO international trademark, going global. Lanboo registered a lot of kinds of domestic trademarks, comprehensive coverage protection. Set up a wholly-owned subsidiary in Dongguan, focusing on R&D and manufacturing of high-end plastic buttons. Establish a high-end CNC workshop, and gradually realize manipulator clamping, improve product quality, and improve delivery time again.

We will continue to work hard and do better!



LB22SA

High Quality Push Button, Indicator Light

LANBOO Industrial Control | Fall In Love With Things Made In China

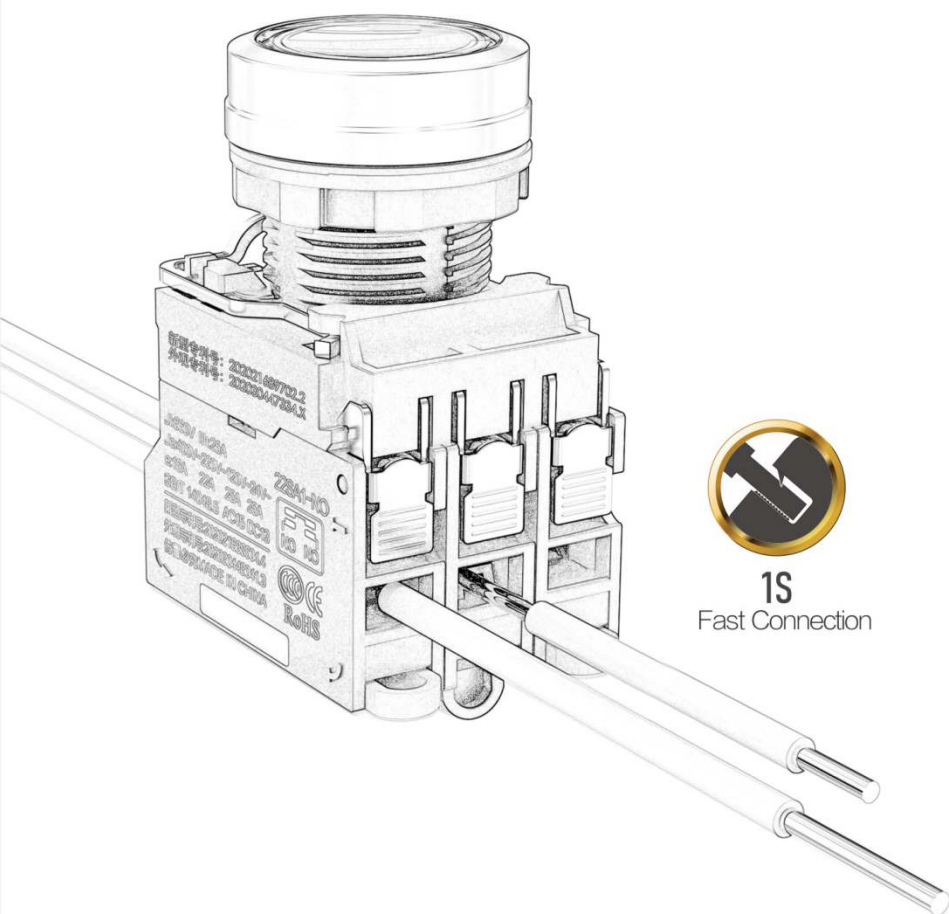




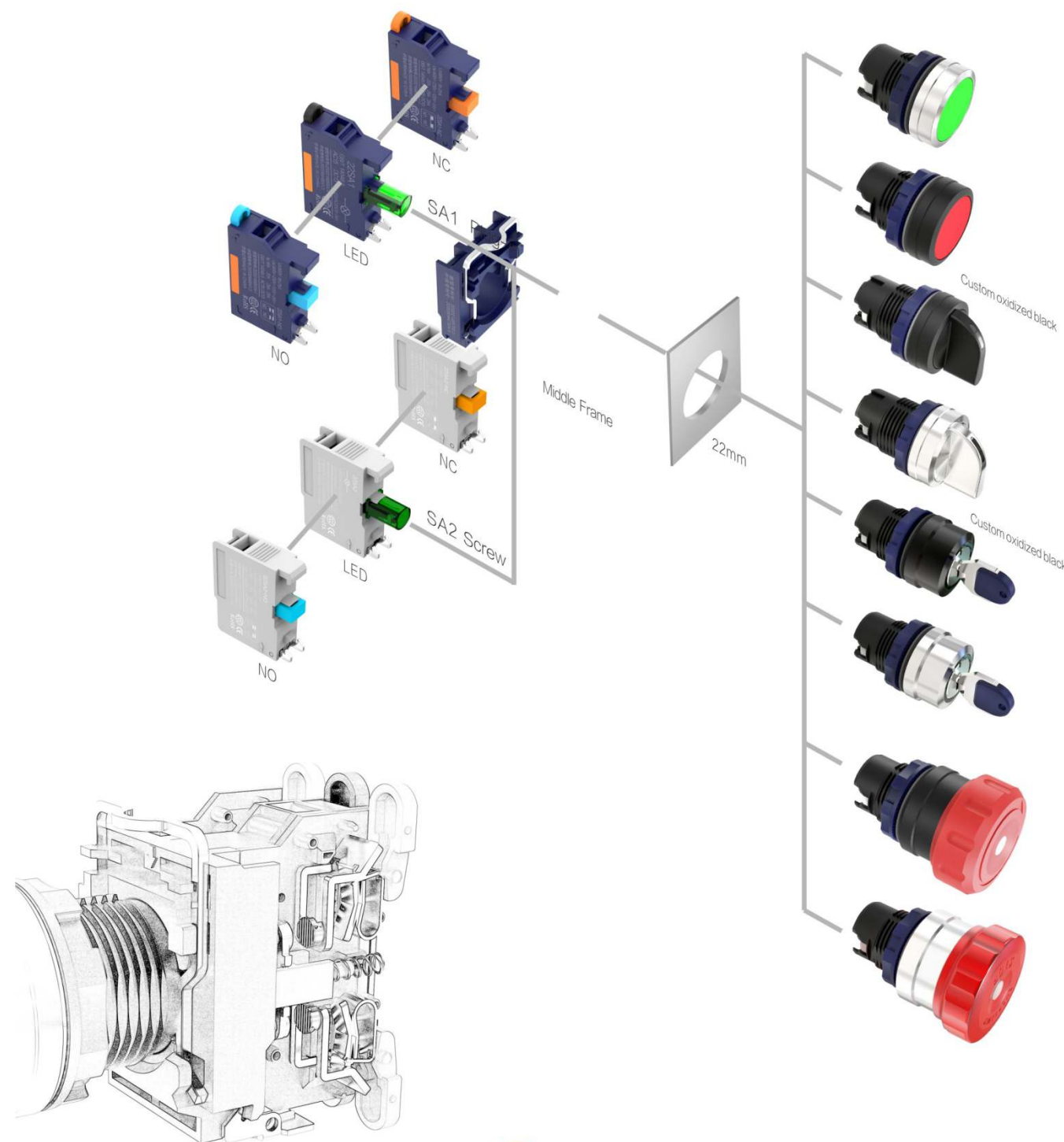
SUBVERTING

Another innovation
In the Buttonswitch industry

Completely change the traditional wiring
Save labor and time



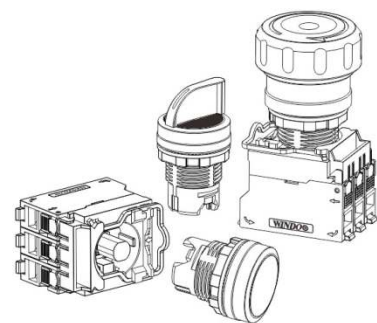
1S
Fast Connection



Current **25A** **A**
High-Current

Ui:660V/Ith:25A, Direct control of high power equipment

LB22SA
High Quality
Push Button \ Indicator Light



1S
Fast Connection



25A
High-Current



1S
Plug-in



25A
UI:660V
Ith:25A



22mm
Diameter



LED
50000H
Long Life LED



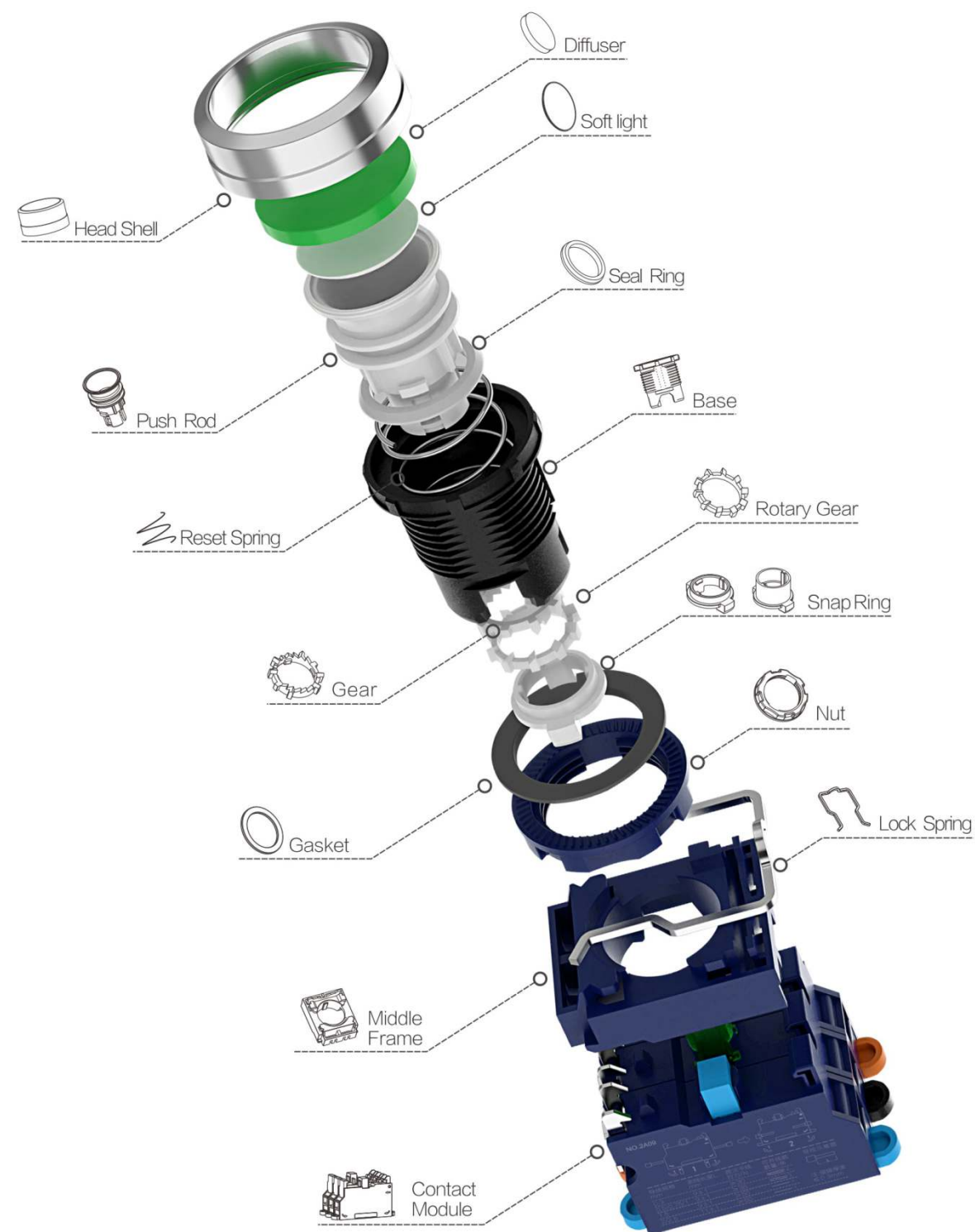
≥0.5 Million Electrical Life
≥10 Million Mechanical Life

GLOBAL PIONEER

Push Button、Indicator Light

LB22SA

Push Button、Indicator Light



LB22SA

Push Button、Indicator Light

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Model Code	LB	⊗	◇	★	■	⊙	●	▲	▼	◎	☆	※
LB	LANBOO											
⊗	Diameter : 22mm	Series:SA1(Plug-In) SA2(Screw Connection)										
◇	Parts Code:	SA1-PushButton SA1Y1-Key Switch SA1X1-Knob Switch SA1M1-PC Emergency Button SA1M3-Metal Emergency Button SA1Z1-Indicator Light										
★	Head Shape:	P-Flat Head Q-Ball Head H-High Head Y-Key Head X-Knob Head M-Mushroom Head										
◆	Contact:	10-1NO 20-2NO 30-3NO 1C-1NC 2C-2NC 3C-3NC 11-1NO1NC 22-2NO2NC 12-1NO2NC 21-2NO1NC										
■	Action form :	F-Momentary Z-Maintain(Latching)										
⊙	Key Material:	C-Pervious to Light Blank: Frosted Key (This Item Only for Push button Switch)										
●	Key Color:	R-Red G-Green B-Blue Y-Yellow W-White H-black(This Item Only for Frosted Key)										
▲	LED Color:	R-Red G-Green B-Blue Y-Yellow W-White										
▼	LED Voltage:	9-24V 220V,Customize: 25-48V 220V (AC/DC)										
◎	Shell Material:	A-Aluminium oxide PC-Plastic Customize:S-Stainless Steel N-Chrome Plated Brass										
☆	Position :	2-2 Position 3-3 Position(For knobs and key buttons, other switches please ignore)										
※	Knob Handle Color:	Default Silver Color, Customize:Black(For the knob, other switches please ignore)										

Product overview

LANBOO SA1 quick plug-in button switch, indicator light, Redesign and definition, Breaking the traditional design concept, Disassembly and installation without tools, 1 second quick plug wiring, can perfectly replace the market of button switches and indicators.

LABSA Series:

● Push button switch without LED

○ Momentary, Frosted key, Six colors are optional.



● Push button switch with LED

○ Momentary / Latching, Transparent key, Five colors



● Knob switch / Keyswitch

○ With LED, No LED, 2 Position, 3 Position, Momentary, Latching

● Emergency stop button

○ Maintain, M1 Plastic head, M3 Metal head

● Contact module

○ High power, Ith:25A high current slow motion dual contact module

○ Quick plug wiring, save time and effort

● LED module

○ 50000 hours, non-polar LED, low power consumption, ≤20mA

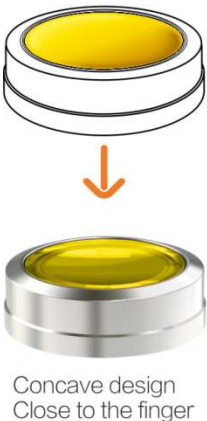
○ Voltage: 9-24V, 220V, Customize: 25-48V, 110V

○ LED color: red, green, blue, yellow, white

● Accessory

Material

Head Shell	Button switch:	Default :6063 Aluminum oxide (RoHS)/PA66 (RoHS), V0 Customize :304 stainless steel (RoHS) H57/59 copper chrome plated Aluminum oxide black
	Emergency button:	M1:PA66 (RoHS) M3:6063 Aluminum oxide Red (RoHS)
	Knob switch:	Default:60636063 Aluminum oxide silver(RoHS) Customize:60636063 Aluminum oxide black (RoHS)
	Key switch:	Default:60636063 Aluminum oxide silver(RoHS) Customize:60636063 Aluminum oxide black (RoHS)
Key	PC (RoHS) , V2 (Push button switch)	
Nut	PA66 (RoHS) V0	
Gasket	NBR、Black; Customize silicone, white (RoHS)	
Contact	AgSnO2 (RoHS)	
Middle frame	PA66 (RoHS) , V0	
Contact shell	PA66 (RoHS) , V0	
Base	PA66 (RoHS) , V0	
Pin	H65 Silver plating (RoHS)	



LB22SA

IP65
IK08



Environmental Conditions

Ambient Temp	-40°C ~ +80°C , Non-vacuum, Non-freezing conditions
Ambient humidity	45 ~ 90%RH
Storage Temp	If the package is intact, -40°C ~ +55°C
Storage humidity	If the package is intact, 45 ~ 90%RH
Protection grade	IP65(Indicator light IP68), IK08 (GB/T 20138)
Anti-Vibration	XYZ Three-way, 60Hz, Amplitude 2mm
Fall prevention	1 meter drop, 3 times, Normal operation
Packaging drop	0.6 meter drop, 4 times, Normal operation
Shock resistance	Each part can withstand impact force 10g, Work normally
Temp rise test	Article 8.3.3.3 in GB/T14048.5
Salt spray test	72h, 3 Cycles, (GB/T 2423.18-2012)
Low-Temp test	-40°C,96h, Contact resistance $\leq 200m\Omega$,Key pressure change value $\leq 30\%$, LED work normally
High-Temp test	80°C,96h, Contact resistance $\leq 200m\Omega$,Key pressure change value $\leq 30\%$, LED work normally
Temp shock	-40 ~ +85°C, 85%RH, 40min/Cycle, 50Cycle, Contact resistance $\leq 200m\Omega$ 、Key pressure change value $\leq 30\%$, LED work normally

Electrical Specification

Resistive current	Ith:25A(Ui660VAC,Ue:400VAC)
Contact resistance	$\leq 50m\Omega$
Resistive load	AC-15:400V:16A,230V:22A,120V:25A; DC-13:24V:25A
Inductive load	AC-15:400V:2A,230V/120V:5A; DC-13:24V:6A
Insulation resistance	$\geq 1000M\Omega$
Dielectric strength	3500VAC,50Hz,1min(Between the terminal and the contact module lock) 2500VAC,50Hz,1min (Between contacts)
Contact Min load	3V AC/DC,5mA(Reference value,Depends on the environment and load)
ESD	Human body mode: 2KV, customize 8KV Resistive load:AC440V/16A、20000 times; AC230V/22A、50000 times
Electrical life	AC120V/25A、50000 times; DC24V/25A: 50000 times (GB/T14048.5)
Mechanical life	Momentary:10 million times; Latching:1million times(GB/T14048.5) M1/M3/Knob switch/Key switch/Momentary:2million times, Latching: 300000times(GB/T14048.5)
Limit pressure test	Hold at the bottom for 5s, then loosen, 4 times /min, conduct 2000 tests

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Rotation angle	Key switch/Knob switch :2 position, 60° ; 3 position 60°
Rotary force	Key switch/Knob switch :2 position, $\approx 4N$; 3 position $\approx 5N$
Keypress pressure	Push button switch head(Frosted Key): 5.8 $\pm$ 0.8N, 1NC:13.2 $\pm$ 0.8N, 1NO:14 $\pm$ 1.5N 1NO1NC:18.5 $\pm$ 1.2N 1NO2NC:23 $\pm$ 2N, 2NO1NO:23.4 $\pm$ 1.2N, 2NO:18.2 $\pm$ 1.5N 2NC:18 $\pm$ 2N, 3NO:21.8 $\pm$ 1.8N, 3NC:24.1 $\pm$ 1.8N Push button switch head(Transparency Key): 5.8 $\pm$ 0.8N, 1NC:10 $\pm$ 1.2N, 1NO:9.4 $\pm$ 1N, 1NO1NC:14.7 $\pm$ 1.2N, 2NO:18.2 $\pm$ 1.5N, 2NC:15 $\pm$ 1.2N M1/M3 head: 20.7 $\pm$ 2.5N, 1NC:20.7 $\pm$ 4N, 1NO:22.3 $\pm$ 2N 1NO1NC:22.1 $\pm$ 2.5N, 2NO:22.6 $\pm$ 2.5N, 2NC:21.9 $\pm$ 2.5N
Resistance to come off	$\geq 80N$, No come off, 1min (Contact module and middle frame) $\geq 200N$, No come off, 1min(Middle frame and button head)

LED

Rated current	$\leq 24V$, $\leq 20mA$; $>24V$, $\leq 10mA$
LED Type	SMT non-polar LED
Voltage drop	Built-in step-down resistor
LED life	$\geq 50000h$ (Reference value)

Packaging and other

Packaging	1 piece/bag, 10 bags/box Box size:105x165x80mm
Weight	Refer to the detailed product description at the back
Tolerance	GB/T 1804-m
Certification	CCC、CE、RoHS (Customize) 、REACH (Customize)
Patent	202021689702.2 202030447334.X Contact module: ZL202021688504.4 ZL202030448041.3 Middle frame: 202021689702.2 202030447334.X Push button switch: ZL202030447322.7 Indicator light: ZL202030447339.2 M1/M3 Emergency button: ZL202030447335.4 Knob switch: ZL202030448039.6 Key switch: ZL202130104748.7
Guarantee	66 Months





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High Quality Push Button、Indicator Light

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Push Button Switch

Characteristic	Contact	Head material	Key color	Icon	LED
	NO NC				
Frosted key	1NO	Aluminum oxide	Red	⬆	No
Momentary	1NC	Plastic black	Green	⬆	
No LED	2NO		Blue	⬆	
	2NC	Customize	Yellow	⬆	
	3NO	304	White	ON	
	3NC	H57/59	Black	⬆	
	1NO1NC	Copper chrome		⬆	
	1NO2NC	Titanize		⬆	
	1NC2NO			⬆	

Plastice Head:11.9g、Metal Head:12.9g、Middle Frame:7.4g、NO:10.5g、NC:11.1g

Transparency key	1NO	Aluminum oxide	Red	⬆	AC/DC
Momentary	1NC	Plastic black	Green	⬆	9-24V
Latching	2NO	Customize	Blue	⬆	220V
No LED	2NC	304	Yellow	⬆	Customize
	1NO1NC	H57/59	White	ON	25-48
		Copper chrome		⬆	110V
		Titanize		⬆	

Plastice Head:12.9g、Metal Head:14.9g、Middle Frame:7.4g、NO:10.5g、NC:11.1g、LED:9.7g



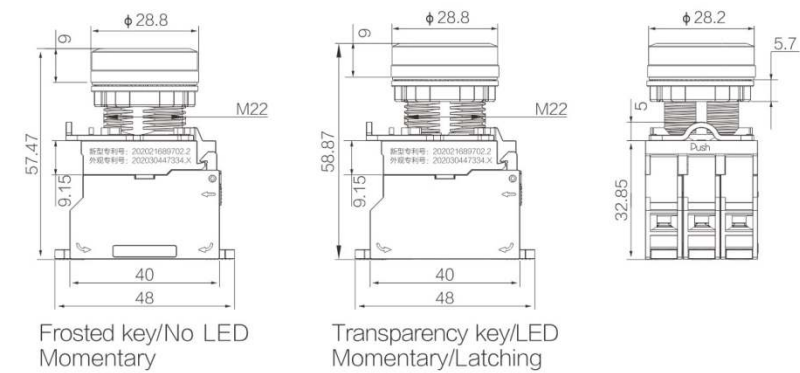
LB22SA1-P ◆■/PC



LB22SA1-P ◆■/C▲▼/PC

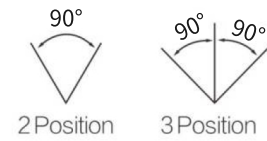


LB22SA1-P ◆■/C▲▼/A



LB22SA1

Push Button、Indicator Light



Characteristic	Contact	Position	Head Material	LED Color	LED Volt
Momentary	NO NC	2/3 position	Aluminum oxide	Red	AC/DC
Latching	1NO 1NC	Latching	Customize	Green	9-24V
	2NO 2NC	2/3 position	Aluminum oxide	Blue	220V
	1NO1NC	Momentary	Black	Yellow	Customize
				White	25-48
					110V

Head:18.9g、Middle Frame:7.4g、NO:10.5g、NC:11.1g、LED:9.7g



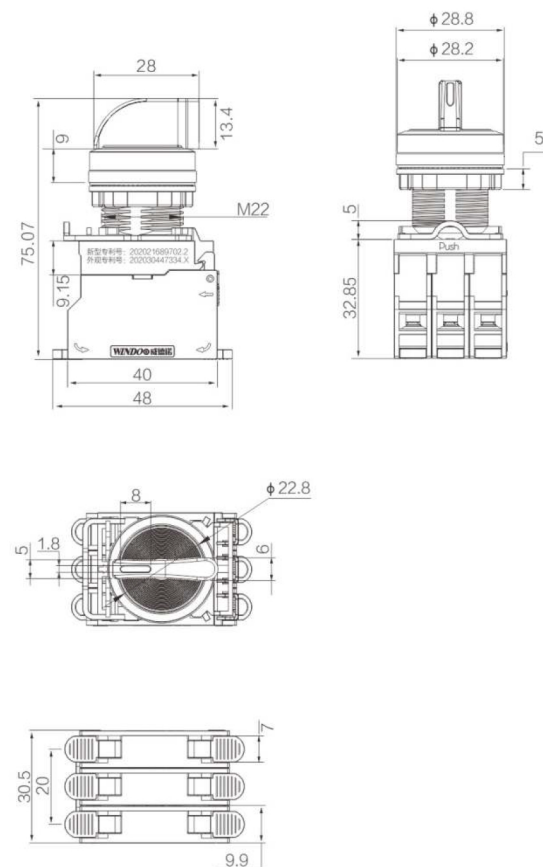
LB22SA1X1-X ◆■/A (Silver)



Customize black handle



Customize black handle and black head



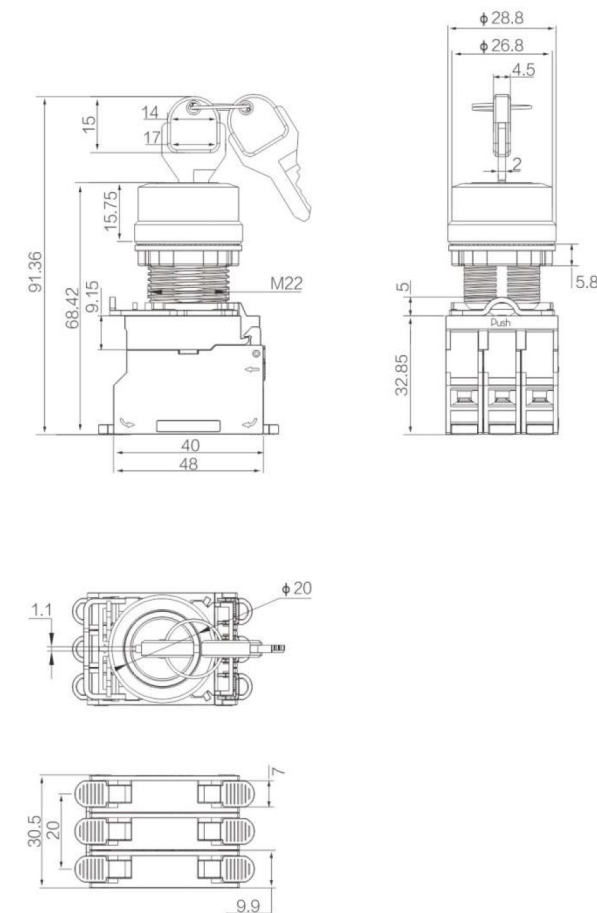
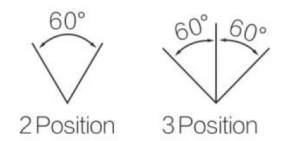
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Characteristic	Contact	Position	Head Material	LED Color	LED Volt
Momentary	NO NC	2/3 position	Aluminum oxide	Red	AC/DC
Latching	1NO 1NC	Latching	Customize	Green	9-24V
	2NO 2NC	2/3 position	Aluminum oxide	Blue	220V
	1NO1NC	Momentary	Black	Yellow	Customize
				White	25-48
					110V

Head:29.9g、Middle Frame:7.4g、NO:10.5g、NC:11.1g、LED:9.7g



LB22SA1Y1-Y ◆■/A



Customize black head

LB22SA1

Push Button、Indicator Light

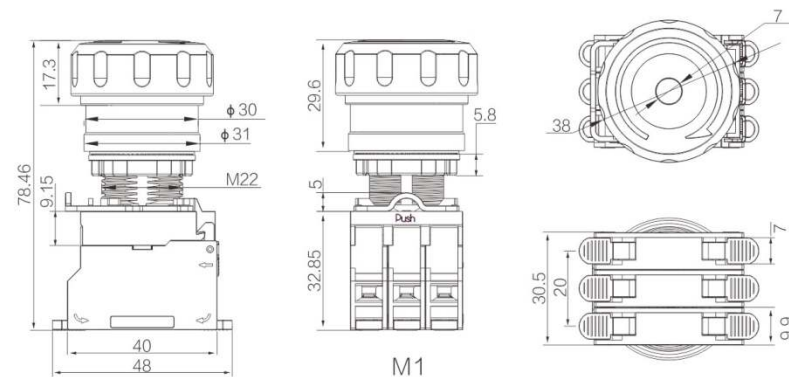
Emergency Stop Button Switch

Characteristic	Contact	Head Material	Icon	LED Color	LED Volt
Latching	NO NC	M1	M1	Red	AC/DC
LED	1NO 1NC	Plastic		Green	9-24V
	2NO 2NC	M3		Blue	220V
	1NO+1NC	Aluminum oxide		Yellow	Customize
		Red		White	25-48
					110V

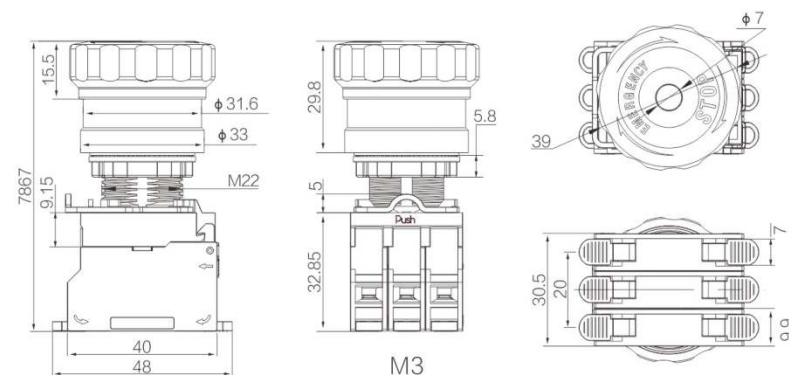
M1 Head:28.3g、M3 Head:43.5g、Middle Frame:7.4g、NO:10.5g、NC:11.1g、LED:9.7g



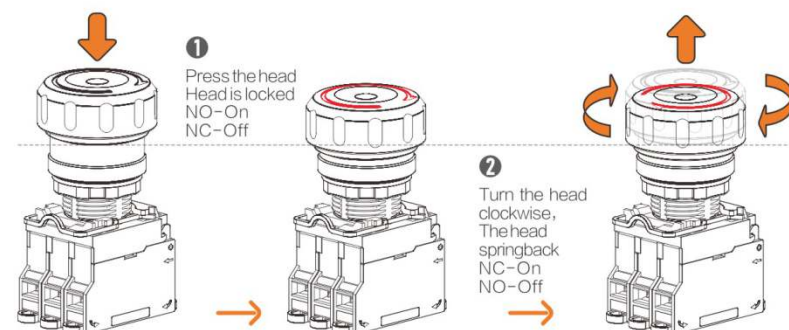
M1(Plastic Head)
LB22SA1M1-M ◆■/PC



M3(Metal Head)
LB22SA1M3-M ◆■/A



Method of application



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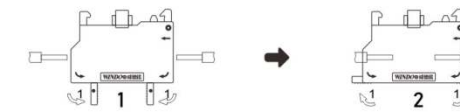
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Contact module and wiring

Wiring Method: Plug-in fast connection

Lock wire capacity



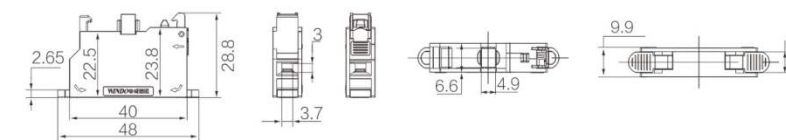
Wire size AWG	剥线长度L mm	Lock wire strength N	Quantity
22	9±1	≥30	4
20	9±1	≥35	3
17	9±1	≥35	2
16	9±1	≥50	1
13	11±1	≥50	1

Note: Flexible wire
thickness of
tin immersion
≤0.3mm

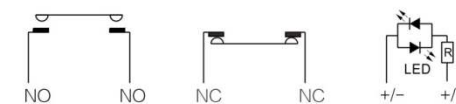
→ ≥50N
Positive Pull
Wire no come off

→ 1S
A second plug
connection

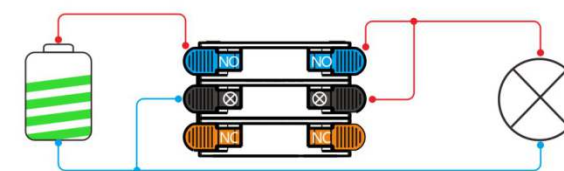
Contact module size



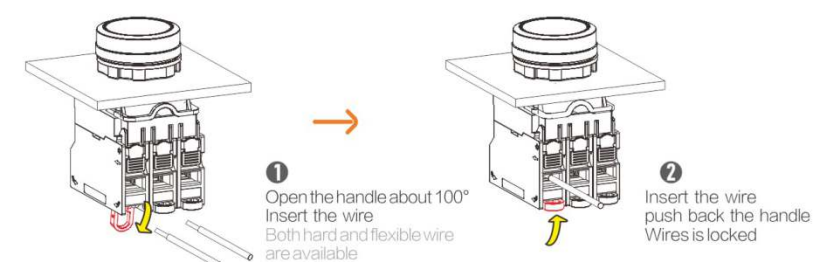
Contact schematic diagram



Wiring schematic

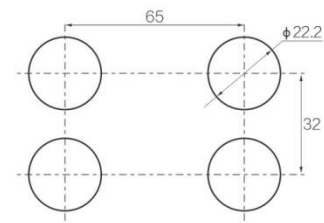


Quick Plug-in wire



LB22SA1

Push Button 、Indicator Light

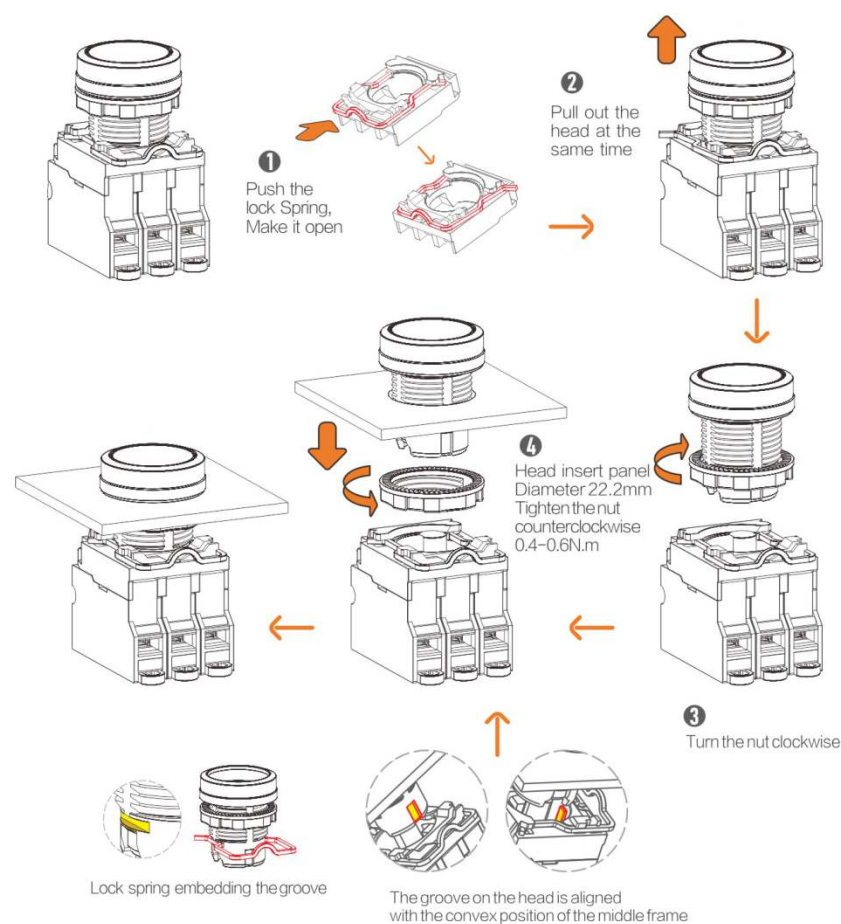


Mounting clearance

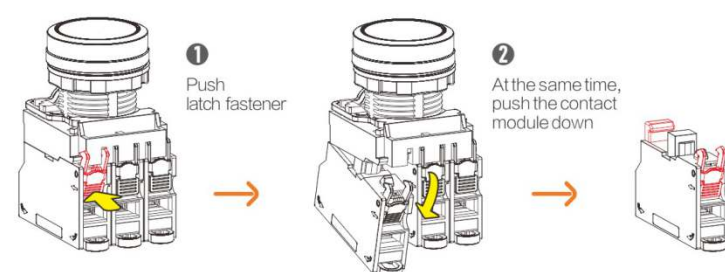
Install

Diameter	22.2mm
Panel thickness	StopSwitch: ≤4.5mm、Button switch: ≤5.5mm、 indicator light/Key/Knob switch: ≤8mm
Tightening torque	0.4-0.6N.m
Nut performance	Tighten the nut to deform the gasket, 5 times, no abnormality

Head and panel mounting



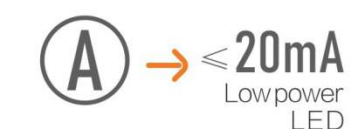
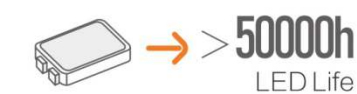
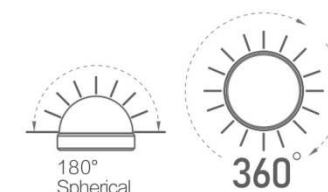
Module disassembly



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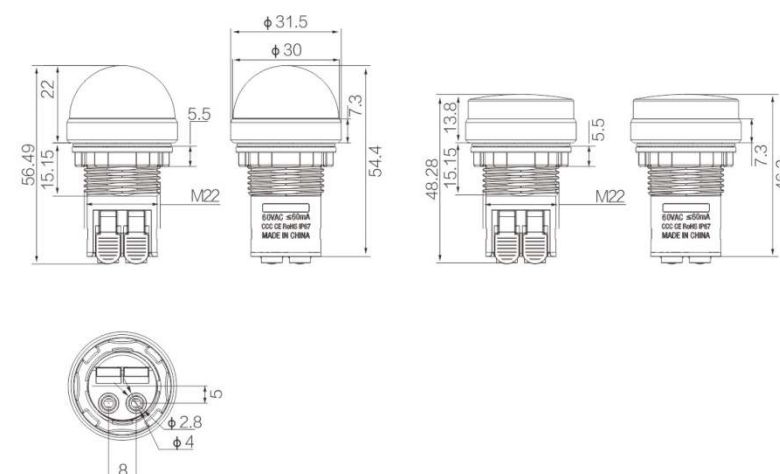
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Indicator light

LED Color	LED Voltage	Connection	Weight
● Red	AC/DC	Plug-in	Ball head Aluminum edge:25.5g
● Green	9-24V		Ball head Plastic edge:19 g
● Blue	220V		Flat head Aluminum edge:19.4g
● Yellow	Customize		Flat head Plastic edge:17.9 g
○ White	25-48 110V		



Flat head Aluminum edge



Ball head Aluminum edge

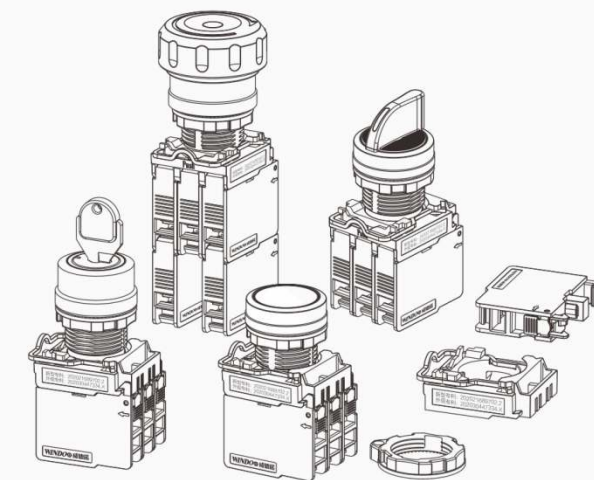
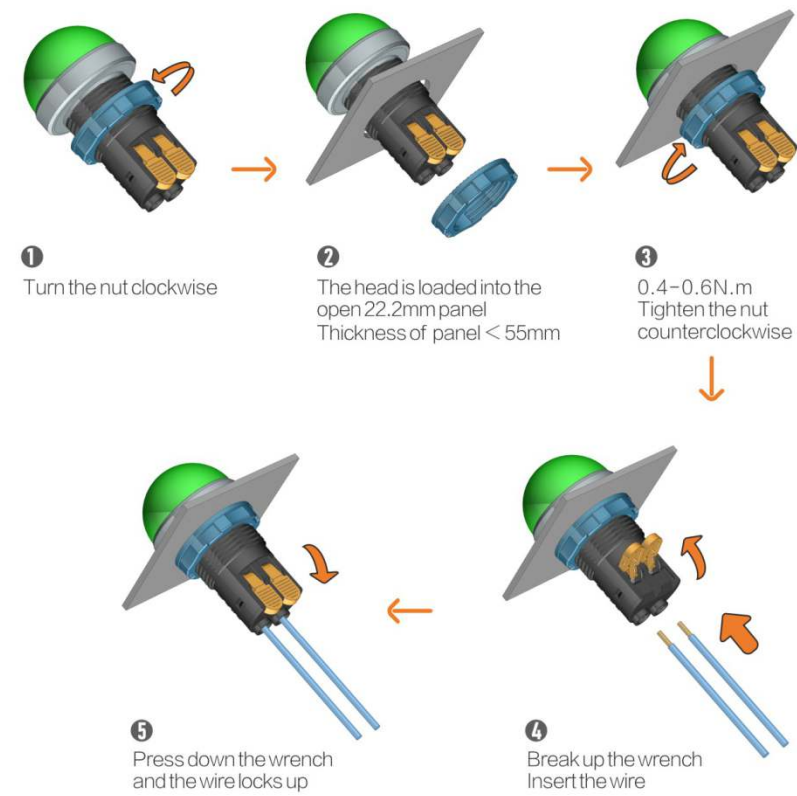


Ball head Plastic edge

LB22SA1

Push Button、Indicator Light

Install



3NO3NC... Splice	25A Ui:660V Ith:25A	22mm Diameter	LED 50000H Long Life LED	>0.5 Million Electrical Life >10 Million Mechanical Life	

LB22SA2

Contact Module Free Combination



LB22SA2

Push Button、Indicator Light

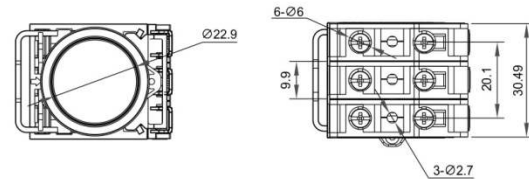
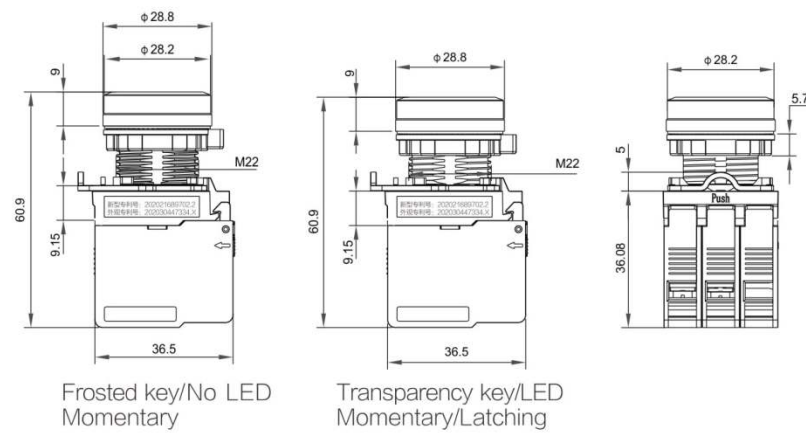
Push Button Switch

Characteristic	Contact	Head material	Key color	Icon	LED
Frosted key	1NO	Aluminum oxide	Red	⬆	No
Momentary	1NC	Plastic black	Green	⬆	
No LED	2NO		Blue	⬆	
	2NC	Customize	Yellow	⬆	
	3NO	304	White	ON	
	3NC	H57/59	Black	⬆	
	1NO1NC	Copper chrome		⬆	
	1NO2NC	Titanize		⬆	
	1NC2NO			⬆	

Plastice Head:11.9g、Metal Head:12.9g、Middle Frame:7.4g、NO:11.8g、NC:12.3g

Transparency key	1NO	Aluminum oxide	Red	⬆	AC/DC
Momentary	1NC	Plastic black	Green	⬆	9-24V
Latching	2NO		Blue	⬆	220V
No LED	2NC	Customize	Yellow	⬆	
	1NO1NC	304	White	ON	Customize
		H57/59		⬆	25-48
		Copper chrome		⬆	110V
		Titanize		⬆	

Plastice Head:12.9g、Metal Head:14.9g、Middle Frame:7.4g、NO:11.8g、NC:12.3g、LED:10.9g



LB22SA2-P◆■/PC



Pa66



Aluminum oxide

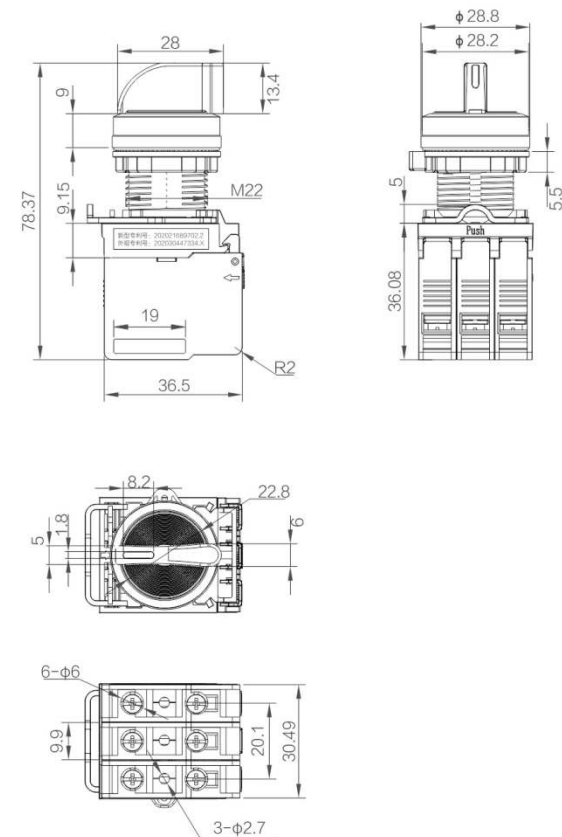
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Made In China

Characteristic	Contact	Position	Head Material	LED Color	LED Volt
Momentary	1NO	2/3 position	Aluminum oxide	Red	AC/DC
Latching	1NC	Latching		Green	9-24V
	2NO		Customize	Blue	220V
	2NC		Aluminum oxide	Yellow	
	1NO1NC	2/3 position	Black	White	Customize
		Momentary			25-48
					110V

Head:18.9g、Middle Frame:7.4g、NO:11.8g、NC:12.3g、LED:10.9g



LB22SA2X1-X◆■/A(Silver)



Customize black handle



Customize black handle and black head