

Push-in button and indicator light

Easier wiring



Brief Introduction

Shanghai UPUN Electric (Group) is a high-tech enterprise integrating R & D, manufacturing, sales and technical services, National-level specialized and special new "little giant" enterprise, Shanghai science and technology giant enterprise, Shanghai patent pilot enterprise, Shanghai civilized unit, Songjiang District Enterprise Technology Center, China Integrity Management demonstration Unit, China Electrical Appliance Industry Association technological Innovation Leader. Won the Songjiang District quality Innovation Award, Shanghai Bureau of Industry and Commerce contract-abiding AAA enterprises, Shanghai Taxation Bureau tax credit An enterprises, Shanghai harmonious labor relations enterprises and State Administration of Industry and Commerce contract-abiding enterprises.

The company has passed ISO9001 quality management system certification, ISO14001 environmental management system certification and ISO45001 occupational health and safety management system certification. Products have passed China CCC certification, China Quality Certification Center CQC certification, China Classification Society CCS certification, international explosion-proof IECEx certification, and EU CE certification , U.S. UL/CUL certification, German VDE certification, TUV Rheinland certification, Brazil INMETRO certification and EU ROHS, etc.

The company contains industrial electrical appliances, new energy auto parts, charging equipment and system solutions, and machine substitution industries, with industrial wiring technology, PCB terminal blocks and device connectors, push buttons, signal lights, relays, control cabinet, transfer switches, analog signals isolators, transmitters, photoelectric relay modules, switching power supplies, signal lighting protection, heavy duty connector, electrical accessories and high-voltage wiring harnesses, AC/DC charging piles, mode 2 and hundreds of series and tens of thousands of specifications. At present, it has hundreds of product patents and participated in the drafting of dozens of standards.

UPUN Electric (Group) always takes innovation as the source of motivation, constantly adheres to technological innovation, increases R&D investment, and establishes strategic cooperation with overseas scientific research institutions, builds a technological innovation platform, and has established the product R&D center, the mould center, and the testing center. Adopt advanced automated production and processing equipment, testing equipment, etc., and cultivate a group of professional technical teams. Products are widely used in nuclear power industry, electric power, metallurgy, machinery, chemical industry, railways, new energy and other fields, and in the State Grid, Southern Power Grid, Olympic venues, Qinshan Nuclear Power Station, Beijing-Guangzhou Railway, Beijing-Zhengzhou Railway, Guangzhou Baiyun Airport, Beijing Metro, Oriental Pearl Tower, Three Gorges Project, Shengli Oilfield, Sinopec and other key projects at home and abroad are playing an increasingly important role.

UPUN always adheres to the enterprise strategy of combining enterprise development with promoting the development of national industry, actively strengthens its core competitiveness, and is committed to becoming an international well-known electrical brand.

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UC2-E9 Push-in plastic button

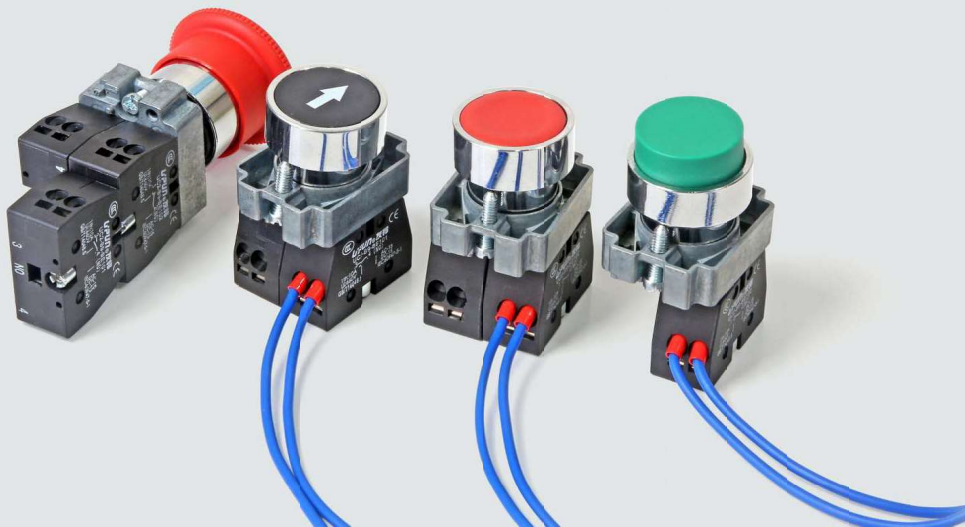
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AD103-22 Push-in wiring indicator lights

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UC2-B9

Push-in metal button and indicator light

Features

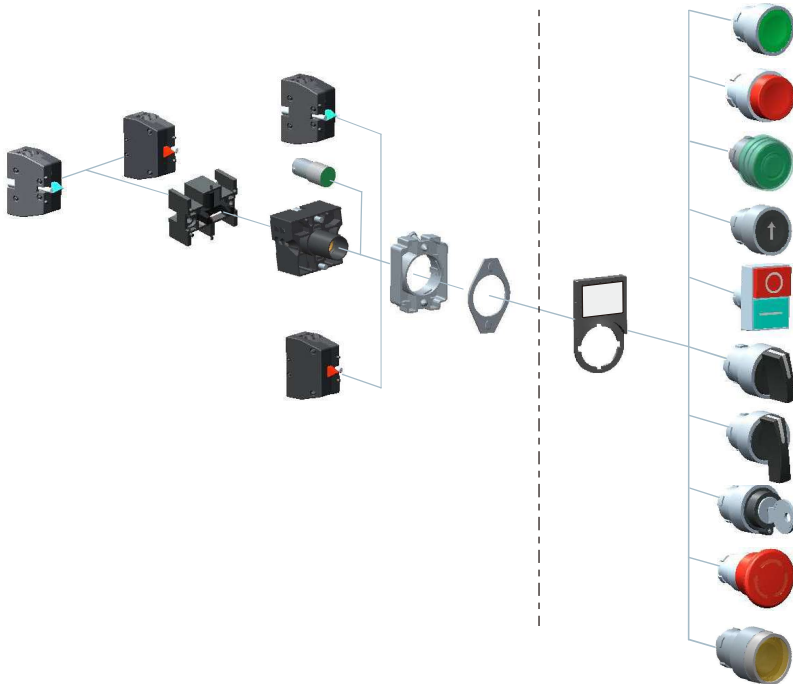
UC2-B9 Push-in metal button and signal light have the characteristics of anti-vibration, anti-shock, high protection degree, fast speed of wiring and free maintenance. And they also have a wide range of environmental adaptability.

1. Faster, safer and more reliable wiring, compared with the traditional screw crimping wiring.
2. Wiring speed increases by 2/3.
3. Two wires can be inserted at the same potential point, achieving wiring expansion.
4. Stainless steel shrapnel structure and rigorous manufacture process are adopted, which is anti-vibration and maintenance-free, greatly reducing the cost of use and maintenance.
5. Spring crimp connection can achieve great contact reliability and excellent vibration resistance regardless of wire size and shape state.
6. It reduces maintenance man-hours without screwing and torque control, compared with screw wiring.
7. The button head and the middle plate adopt zinc-based die-casting alloy. The anti-collision ability reaches IK06, and the protection level of the button head is IP65.
8. Widely applied in fields such as electric power, rail transit, wind power generation, communication and automation machinery.

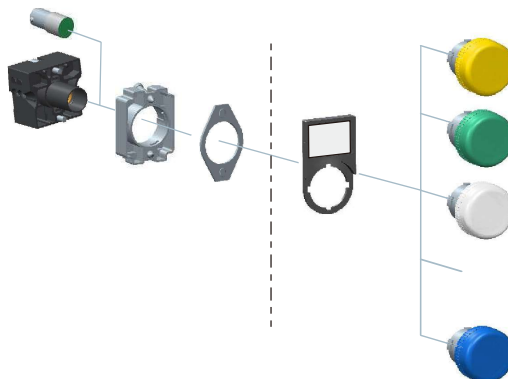
Standard : GB/T14048.1, GB/T14048.5

◎ The brief of button and indicator light

Composition of UC2-B9 push-in mental button

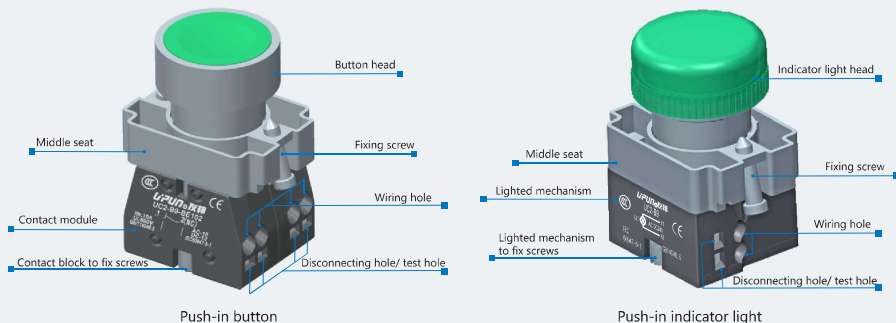


Composition of UC2-B9 push-in mental indicator light



Push-in mental buttons and indicator lights Ø22mm

UC2-B9 Push-in mental button and indicator light Installation, wiring and introduction



Easy and convenient wiring

Connecting and disconnecting wire

The spring connection technology of push-in allows conductors to be wired in two diverse ways.

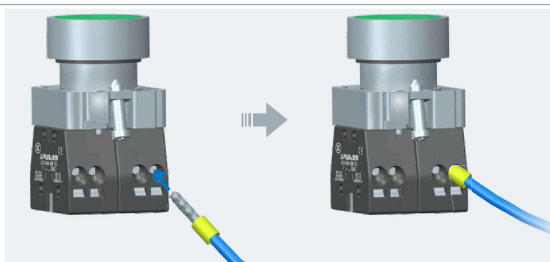
1. General wiring for all wire types: Use the operating tool to open the terminal unit, and insert the wire. Then remove the operating tool. Finally, the wiring is complete.

2. Push-in wiring: Only plug the wire directly, which finish wiring.

Hard wire, such as single wire, stranded wire and fine multi-stranded wire with cold-pressed terminal, can be inserted directly without tools. Please notice that removal of conductors always requires to use operate tools.

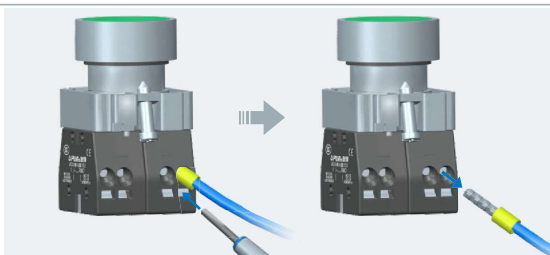
1 Connecting wire(same potential expansion)

Insert the wire with the pressed terminal directly into the wiring hole to the bottom, which is finishing wiring. Then, please slightly pull the wire up to confirm that the wire cannot be unplugged.



2 Disconnecting wire

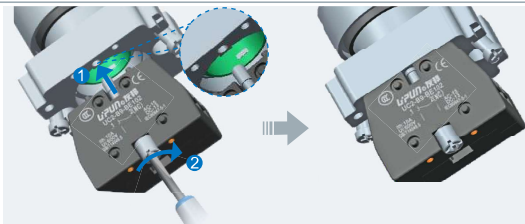
Slightly insert the disconnecting hole with a zigzag screwdriver, and the wire will pop out.



Installation and removal of contact module and lighted mechanism

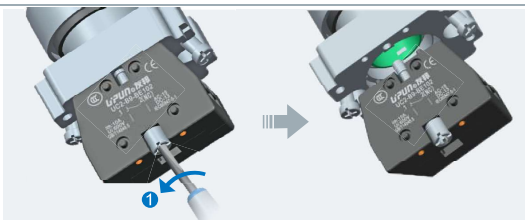
1 Installation

Align the screw located at the contact module with the recess hole in the middle plate and rotate the screw clockwise. Then confirm that the contact module and the middle plate are fully tightened to complete installation.



2 Removal

Insert the cross screwdriver into the removal screw on the bottom of the contact module and rotate counterclockwise to make the contact module remove from the middle plate, which is finishing removal.



Introduction of button wiring diagram

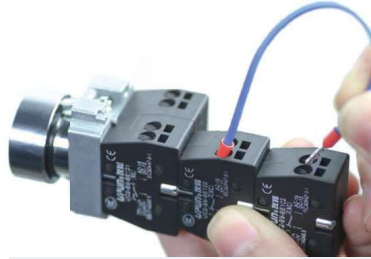
Contact type	NC	NO	Institution with LED lamp
Wiring diagram	1 ——— 2 NC	3 ——— 4 NO	X1 ——— X2
Introduction	1.1-2 is for normally closed contact wire,3-4 is for normally opened contact wire. 2.The light,having no distinction between positive and negative poles,is relatively independent of the switch. The status of light can be controlled by the switch or the outer circuit.		

Push-in mental buttons and indicator lights Ø22mm

◎ Safe application and free maintenance

Anti-vibration and free maintenance

We have adopted spring connection technology of free maintenance, which replaces the screw connecting mechanism with high-quality spring steel. The robust and durable spring steel achieves high reliability of contact and excellent vibration resistance so that it is free maintenance.



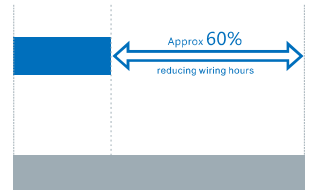
◎ Time saving and high efficiency

Comparison of push-in wiring and screw wiring

Push-in wiring

Only insert wire of multi-strands or hard wire of single strand with terminal, which reduces approx 60% of wiring hours.

Push-in wiring



Screw wiring

When the screw is lifted, insert the wire and tighten the screw with an electric screwdriver

Screw wiring

◎ Stable connection regardless of technology

Comparison of wiring process

No requirement for tools and wiring quality is independent of technology.

Push-in

Insert wire

Slightly pull it to confirm its insertion

Worry about forgetting to tighten screws and implement torque rules when attach and removing wires because of using screws.

Screw

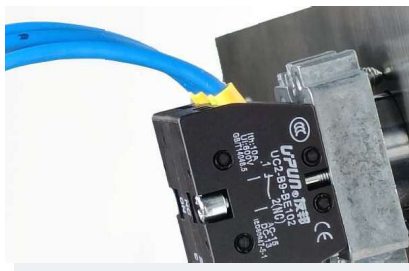
Dismant screws → Insert wire of multiple strands with crimp end → Tighten screws → Reaffirm wiring

Introduction of installation

Wiring obliquely

Wiring obliquely can make wiring easier even if the switch is mounted on the panel.

Compared with the direction of the installation panel, the wiring area is reduced and the space is saved



Equipped with test holes and disconnecting holes which make test.

When a test is required, the push-in probe can be inserted into the test hole for testing. The connection or disconnection of the wire can be easily confirmed in the state of completed wiring.



6 contact modules

Connection of auxiliary contacts ☐
connecting to 3 layers, no more than
6 contact modules



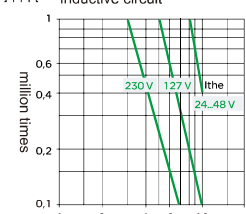
Push-in mental buttons and indicator lights Ø22mm

UC2-B9

Push-in mental button

Ø22mm

Technical data

Environmental feature									
Standard	IEC/EN 60947-5-1, GB/T14048.1, GB/T14048.5-1								
Standard usage status	Ambient temperature: -25 ~ +70℃, Environment humidity:45 ~ 85% RH No ice and condensation Storage temperature: -40 ~ +70℃, Environment humidity:45 ~ 85% RHNo ice and condensation								
Altitude	≤5000 meters								
Anti-vibration	Mushroom-headed button: 8g, Other buttons and indicator light: 15g (40 Hz < frequency < 500 Hz), meets IEC 60068-2-6								
Anti-shock	Button: 70g, Mushroom-headed button: 15g, Selector switch: 200g, meets IEC 60068-2-27								
Mechanical life	Button:3×10 ⁵ , “Emergency stop button :3×10 ⁵								
Protection degree	Contact module:IP20 protection structure of finger safety Panel front: IP65(IEC 60529) Button with booted head :IP66								
Contact feature									
Rated value	~ AC-15 : A600 or Ue = 240 V and Ie = 3 A --- DC-13: Q600 or Ue = 250 V and Ie = 0.27 A								
Related insulation voltage	Ui = 600 V , Pollution degree : 3, meets IEC 60947-1 , Ui = 600 V								
Related voltage of shock resistance	Uimp = 6 kV meets IEC 60947-1								
Contact resistance	1890V AC: 1 min between live and dead metal parts								
Insulation resistance	Below 50mΩ(initial value)								
Reliability	Above 100MQ								
Operation pressure	Safety devices (emergency stop button with mushroom head) : reliable disconnect, meets IEC 60947-5-1(part 3).								
Operation pressure	Flush and projecting buttons 10N with 1 NO contact,8N with 1NC contact Second contact 5N with NO contact, 3N with NC contact								
Rated operation power	meets IEC 60947-5-1 appendix C.For AC-15 and DC-13. Operation frequency:3600 times/hour. Power factor: 0.5 AC power supply 50–60Hz Inductive circuit  DC power supply --- Breaking power W Operation- million times <table><tr><td>V</td><td>24</td><td>48</td><td>120</td></tr><tr><td>W</td><td>65</td><td>48</td><td>40</td></tr></table>	V	24	48	120	W	65	48	40
V	24	48	120						
W	65	48	40						
Terminal shape	Push-in terminal								
Wiring	Multi-strand wire with tubular ends of 2×(0.5~1.5)mm ² . Hard wire of single strand of 2×(0.5~1.5)mm ² . Length of recommended crimp end is 8mm.								

UC2-B9

Push-in mental indicator light

Ø22mm

Technical data

Environmental feature	
Standard	IEC/EN 60947-5-1, GB/T14048.1, GB/T14048.5-1
Standard usage status	Ambient temperature: -25 ~ +70°C, Environment humidity: 45 ~ 85% RH No ice and condensation Storage temperature: -40 ~ +70°C, Environment humidity: 45 ~ 85% RH No ice and condensation
Altitude	≤5000 meters
Anti-vibration	Indicator light: 15g (40 Hz < frequency < 500 Hz), meets IEC 60068-2-6
Electronic shock protection	1 degree, meets IEC536 and NF C 20-030
Mechanical life	≥50000 hours under rated condition
Protection degree	Panel front IP65(IEC 60529)
Related insulation voltage	Ui = 600 V, Pollution degree : 3, meets IEC 60947-1, Ui = 600 V
Related voltage of shock resistance	UImp=6kv meets IEC60947-1
Contact resistance	1890V AC: 1 min between live and dead metal parts
Insulation resistance	Above 100MΩ
Terminal shape	Push-in terminal
Wiring	Multi-strand wire with tubular ends of 2×(0.5~1.5)mm². Hard wire of single strand of 2×(0.5~1.5)mm² . Length of recommended crimp end is 8mm.


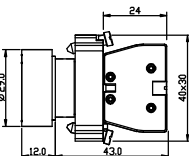

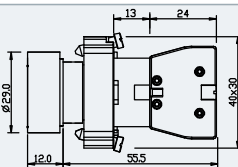

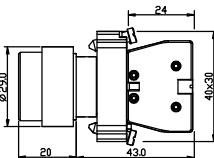

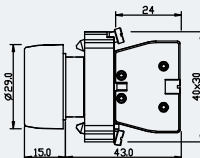
Push-in mental buttons and indicator lights Ø22mm

◎ Type and meaning of flush button,mushroom-headed button, double-headed button

UC	2	-	B9	-			
Company code	Design code		Mental push-in				
					1	2	3


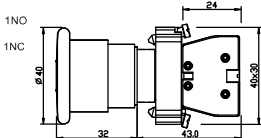

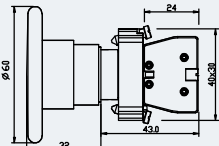

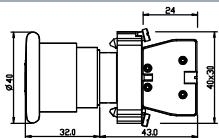

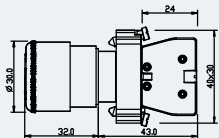

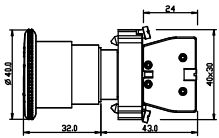

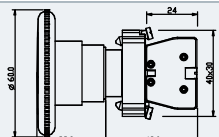

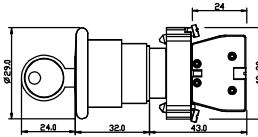
No.	Content	Specification code					
1	Institutional form	A:flush button		AZ:flush button,self-locking		L:projecting button	
		P:button with booted head		C:mushroom-headed button		X:pull-push emergency stop button	
2	Button color	T:pull-push emergency stop button		S4:emergency stop button		R:mushroom-headed button	
		S5:emergency stop button		S6:emergency stop button		S1:emergency stop button with key	
3	Contact configuration	L83:double-headed flush button		L84:double-headed flush button+projecting button			
2	Button color	1: white		3: green		4: red	
		5: yellow		6: blue			
		2: red+green(only double-headed button)					
3	Contact configuration	1:1NO		2: 1NC		3: 2NO	
		4:2NC		5: 1NO+1NC			
		If need other types, the following contact configuration can be customized:					
		6: 2NO+2NO		7: 2NO+1NO		8: 2NO+1NC	
		0: 2NC+1NC		E: 4NO		9: 2NC+1NO	
				F: 4NC			

Flush button



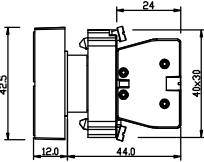
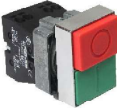

Appearance	Name	Type no.	Color	Contact	Dimensions
	Flush button	UC2-B9-A11	White	1NO	
		UC2-B9-A21	Black		
		UC2-B9-A31	Green		
		UC2-B9-A51	Yellow		
		UC2-B9-A61	Blue	1NC	
		UC2-B9-A22	Black		
		UC2-B9-A42	Red	1NO+1NC	
		UC2-B9-A35	Green		
		UC2-B9-A45	Red		
	Flush button, self-locking	UC2-B9-AZ42	Red	1NC	
		UC2-B9-AZ32	Green	1NO+1NC	
		UC2-B9-AZ55	Yellow	1NO	
		UC2-B9-AZ21	Black		
		UC2-B9-AZ61	Blue		
	Projecting button	UC2-B9-L21	Black	1NO	
		UC2-B9-L31	Green		
		UC2-B9-L51	Yellow		
		UC2-B9-L61	Blue		
		UC2-B9-L22	Black	1NC	
		UC2-B9-L42	Red		
		UC2-B9-L35	Green	1NO+1NC	
		UC2-B9-L45	Red		
	Button with booted head(with waterproof cover)	UC2-B9-P21	Black	1NO	
		UC2-B9-P31	Green		
		UC2-B9-P51	Yellow		
		UC2-B9-P61	Blue		
		UC2-B9-P42	Red	1NC	
		UC2-B9-P35	Green	1NO+1NC	
		UC2-B9-P45	Red		

Push-in mental buttons and indicator lights Ø22mm

Mushroom-headed button

Appearance	Name	Type no.	Color	Contact	Dimensions
	Mushroom-headed button Ø40	UC2-B9-C21	● Black	1NO	
		UC2-B9-C31	● Green		
		UC2-B9-C51	● Yellow		
		UC2-B9-C61	● Blue		
		UC2-B9-C42	● Red	1NC	
		UC2-B9-C35	● Green	1NO+1NC	
		UC2-B9-C45	● Red		
	Mushroom-headed button кнопка Ø60	UC2-B9-R21	● Black	1NO	
		UC2-B9-R31	● Green	1NC	
		UC2-B9-R42	● Red		
		UC2-B9-R35	● Green	1NO+1NC	
		UC2-B9-R45	● Red		
	Pull-push emergency stop button Ø60	UC2-B9-T42		1NC	
		UC2-B9-T45		1NO+1NC	
		UC2-B9-X42		1NC	
		UC2-B9-X45		1NO+1NC	
	Emergency stop button Ø30	UC2-B9-S442	● Red	1NC	
		UC2-B9-S445	● Red	1NO+1NC	
	Emergency stop button Ø40	UC2-B9-S542	● Red	1NC	
		UC2-B9-S545	● Red	1NO+1NC	
	Emergency stop button Ø60	UC2-B9-S642	● Red	1NC	
		UC2-B9-S645	● Red	1NO+1NC	
	Emergency stop button with key Ø40	UC2-B9-S142	● Red	1NC	
		UC2-B9-S145	● Red	1NO+1NC	

Double-headed button

Appearance	Name	Type no.	Color	Contact	Dimensions
	Double-headed button	UC2-B9-L8325		1NO+1NC	
		UC2-B9-L8425			

Push-in mental buttons and indicator lights Ø22mm

◎ Type and meaning of marked button

UC	2	-	B9	-					
Company code	Design code		Mental push-in						
					1	2	3	4	5

No.	Content	Specification code			
1	Institutional form	A: marked button			
2	Button color	1: white	2: black	3: green	4: red
3	Targeting	3: with maker			
4	Mark symbol	1: I 4: ⬆ or ⬇ 6: II	4: ⬆ or ⬇	1: I 6: II	2: ○
5	Contact configuration	1:1NO 4:2NC	2: 1NC 5: 1NO+1NC	3: 2NO	
		If need other types, the following contact configuration can be customized: 6: 2NO+2NO 7: 2NO+1NO 8: 2NO+1NC 9: 2NC+1NO 0: 2NC+1NC E: 4NO F: 4NC			


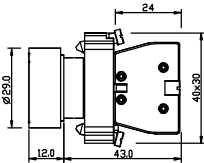
The white button can be marked 1: I 4: ↑ or ↓ 6: II

The black button can be marked 4: ⇕ or ⇓

The green button can be marked 1: I 6: II

The red button can be marked 2: ○

Marked button



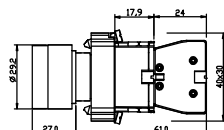





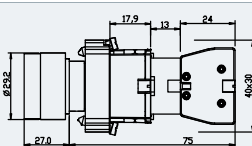



Appearance	Name	Type no.	Color	Contact	Dimensions
	Marked button	UC2-B9-A3311	Green	1NO	
		UC2-B9-A1341	White		
		UC2-B9-A2341	Black		
		UC2-B9-A4322	Red	1NC	
		UC2-B9-A4325	Red	1NO+1NC	

◎ Type and meaning of button with LED lamp

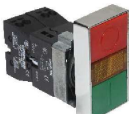

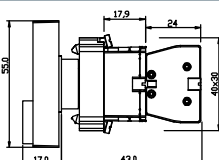
UC	2	-	B9	-					
Company code	Design code		Mental push-in						
					1	2	3	4	5

No.	Content	Specification code
1	Institutional form	W3: flush button with LED lamp W83: Double-headed flush button with LED lamp W84: Double-headed flush button with LED lamp+projecting button
2	Color of institution with LED lamp	1: white 3: green 4: red 5: yellow 6: blue
3	Voltage of institution with LED lamp	2: AC DC 12V 3: AC DC 24V 4: AC DC 36V 5: AC DC 48V 6: AC DC 110V 7: AC DC 127V 8: AC 220V 9: AC 380V 0: AC DC 220V
4	Step-down	6: directly
5	Contact configuration	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC If need other types, the following contact configuration can be customized: 6: 2NO+2NO 7: 2NO+1NO 8: 2NO+1NC 9: 2NC+1NO 0: 2NC+1NC E: 4NO F: 4NC

Button with LED lamp

Appearance	Name	Type no.	Color	Contact	Dimensions
	Flush button with LED lamp	UC2-B9-W33□61	 Green	1NO	
		UC2-B9-W34□62	 Red	1NC	
		UC2-B9-W35□65	 Yellow	1NO	
		UC2-B9-W36□65	 Blue		
	Flush button with LED lamp, self-locking	UC2-B9-W3Z3□61	 Green	1NO	
		UC2-B9-W3Z4□62	 Red	1NC	
		UC2-B9-W3Z5□65	 Yellow	1NO	
		UC2-B9-W3Z6□65	 Blue		

Double-headed button with LED lamp

Appearance	Name	Type no.	Color	Contact	Dimensions
	Double-headed button with LED lamp	UC2-B9-W83□□65		1NO+1NC	
		UC2-B9-W84□□65			



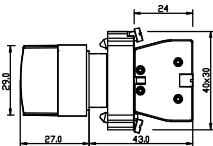







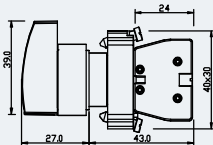








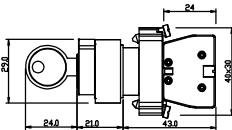









Push-in mental buttons and indicator lights Ø22mm

◎Type and meaning of selector switch

UC	2	-	B9	-			
Company code	Design code		Mental push-in				
					1	2	3

No.	Content	Specification code
1	Institutional form	D: selector switch with short handle J: selector switch with long handle G: key switch
2	Targeting	D: Selector switch with short handle J: Selector switch with long handle G: Key switch 2: self-locking, 2p 4: reset on the right, 2p 6: reset on the left, 2p 8: self-locking on the left and reset on the right, 3p 3: self-locking, 3p 5: reset on the right and left, 3p 7: reset on the left and self-locking on the right, 3p 0: 3p, self-locking, remove in the center 2: 2p, self-locking, remove on the left 4: 2p, self-locking, remove freely 6: 2p, reset on the right, remove on the left 8: 3p, reset on the right, remove on the center A: 3p, self-locking, remove on the right 1: 3p, reset on the left, remove on the right 3: 3p, self-locking, remove in the center 5: 3p, self-locking, remove on the left and right 7: 3p, reset on the right and left, remove on the center 9: 3p, self-locking, remove on the left B: 3p, reset on the left, remove on the center
3	Contact configuration	1: 1NO 4: 2NC 2: 1NC 5: 1NO+1NC 3: 2NO If need other types, the following contact configuration can be customized: 6: 2NO+2NO 7: 2NO+1NO 8: 2NO+1NC 9: 2NC+1NO 0: 2NC+1NC E: 4NO F: 4NC

Selector switch

Appearance	Name	Type no.	Operation	Contact	Dimensions	
	Selector switch with short handle, 2 positions	UC2-B9-D21		1NO		
		UC2-B9-D25		1NO+1NC		
		UC2-B9-D41		1NO		
		UC2-B9-D45		1NO+1NC		
	Selector switch with short handle, 3 positions	UC2-B9-D33		2NO		
		UC2-B9-D53				
	Selector switch with long handle, 2 positions	UC2-B9-J21		1NO		
		UC2-B9-J25		1NO+1NC		
		UC2-B9-J41		1NO		
		UC2-B9-J45		1NO+1NC		
	Selector switch with long handle, 3 positions	UC2-B9-J33		2NO		
		UC2-B9-J53				
		UC2-B9-J73				
		Key switch, 2 position	UC2-B9-G21		1NO	
			UC2-B9-G25		1NO+1NC	
			UC2-B9-G41		1NO	
UC2-B9-G45				1NO+1NC		
UC2-B9-G61				1NO		
UC2-B9-G65				1NO+1NC		
Key switch, 3 position		UC2-B9-G33		2NO		
		UC2-B9-G73				
		UC2-B9-G03				
		UC2-B9-G83				


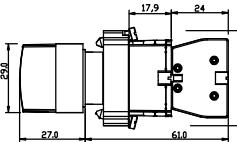
©Type and meaning of key switch with LED lamp

UC Company code	2 Design code	B9 Mental push-in						
			1	2	3	4	5	6

No.	Content	Specification code
1	Institutional form	K: key switch
2	Targeting	2: Self-locking, 2p 5: Reset on the right and left, 3p 7: Reset on the left and self-locking on the right. 3p 3: Self-locking, 3p 6: Reset on the left, 2p 4: Reset on the right, 2p
3	Color of institution with LED lamp	1: white 3: green 4: red 5: yellow 6: blue
4	Voltage of institution with LED lamp	2: AC DC 12V 7: AC DC 127V 3: AC DC 24V 8: AC 220V 4: AC DC 36V 9: AC 380V 5: AC DC 48V 0: AC DC 220V 6: AC DC 110V
5	Step-down	6: directly
6	Contact configuration	1: 1NO 4: 2NC 2: 1NC 5: 1NO+1NC 3: 2NO
		If need other types, the following contact configuration can be customized: 6: 2NO+2NO 0: 2NC+1NC 7: 2NO+1NO E: 4NO 8: 2NO+1NC F: 4NC 9: 2NC+1NO

Selector switch with LED lamp



	Selector switch with LED lamp, 2 positions	UC2-B9-K23□65	▼	● Green	1NO+1NC	
		UC2-B9-K24□65	▼	● Red		
		UC2-B9-K25□65	▼	● Yellow		
		UC2-B9-K26□65	▼	● Blue		
		UC2-B9-K21□65	▼	○ White		
		UC2-B9-K43□65	↙	● Green		
	Selector switch with LED lamp, 3 positions	UC2-B9-K44□65	↙	● Red		
		UC2-B9-K33□65	▼	● Green		
		UC2-B9-K34□65	▼	● Red		
		UC2-B9-K35□65	▼	● Yellow		
		UC2-B9-K36□65	▼	● Blue		
		UC2-B9-K31□65	▼	○ White		
		UC2-B9-K53□65	↗	● Green		
		UC2-B9-K54□65	↗	● Red		
UC2-B9-K73□65	↖	● Green				
UC2-B9-K74□65	↖	● Red				


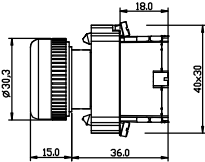
Push-in mental buttons and indicator lights Ø22mm

Type and meaning of indicator light

UC	2	-	B9	-				
Company code	Design code		Mental push-in					
					1	2	3	4

No.	Content	Specification code				
1	Institutional form	V:indicator light				
2	Color of institution with LED lamp	1: White	3: Green	4: Red	5: Yellow	6: Blue
3	Voltage of institution with LED lamp	2: AC DC 12V 7: AC DC 127V	3: AC DC 24V 8: AC 220V	4: AC DC 36V 9: AC 380V	5: AC DC 48V 0: AC DC 220V	6: AC DC 110V
4	Step-down	6: directly				

Indicator light

Appearance	Name	Type no.	Color	Contact	Dimensions
	Indicator light	UC2-B9-V1□6	White	2: AC DC 12V 3: AC DC 24V 4: AC DC 36V 5: AC DC 48V 6: AC DC 110V 7: AC DC 127V 8: AC 220V 9: AC 380V 0: AC DC 220V	
		UC2-B9-V3□6	Green		
		UC2-B9-V4□6	Red		
		UC2-B9-V5□6	Yellow		
		UC2-B9-V6□6	Blue		



UC2-E9

Push-in plastic button

Features

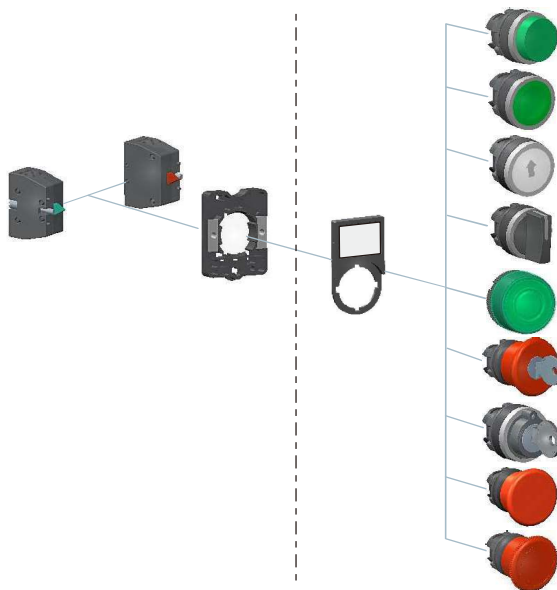
UC2-E9 Push-in plastic button has the characteristics of anti-vibration, high protection degree, fast speed of wiring and free maintenance. And it also has a wide range of environmental adaptability.

- 1.Faster, safer and more reliable wiring, compared with the traditional screw crimping wiring.
- 2.Wiring speed increases by 2/3.
- 3.Two wires can be inserted at the same potential point, achieving wiring expansion.
- 4.Stainless steel shrapnel structure and rigorous manufacture process are adopted, which is anti-vibration and maintenance-free, greatly reducing the cost of use and maintenance.
- 5.Spring crimp connection can achieve great contact reliability and excellent vibration resistance regardless of wire size and shape state.
- 6.Reduces maintenance man-hours without screwing and torque control, compared with screw wiring.
- 7.The button head and the middle plate adopt plastic material.
- 8.Widely applied in fields such as electric power, rail transit, wind power generation, communication and automation machinery.

Standard: GB/T14048.1, GB/T14048.5

© The brief of button

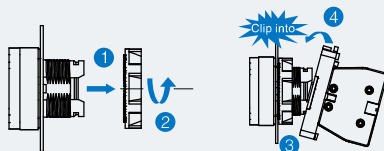
Composition of UC2-E9 push-in plastic button



Installation and removal of UC2-E9 Push-in plastic button

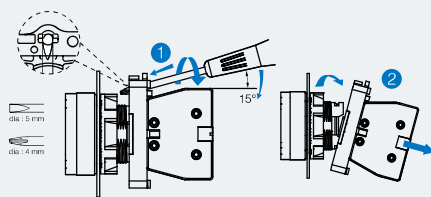
1 Installation

Align the middle seat with the bayonet part of the head, and click it directly to complete the installation



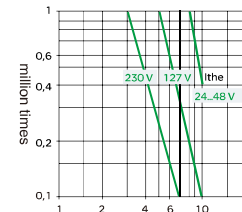
2 Removal

Insert a slotted or cross screwdriver into the buckle of the middle seat, and then pull it out slightly downward to make the head detach from the middle plate



UC2-E9
Push-in plastic button
Ø22mm

Technical data

Environmental feature									
Standard	IEC/EN 60947-5-1, GB/T14048.1, GB/T14048.5-1								
Standard usage status	Ambient temperature: -25 ~ +70°C, Environment humidity:45 ~ 85% RH No ice and condensation Storage temperature: -40 ~ +70°C, Environment humidity:45 ~ 85% RH No ice and condensation								
Altitude	≤5000 meters								
Anti-vibration	Mushroom-headed button: 8g, Other buttons and indicator light: 15g (40 Hz < Frequency < 500 Hz), meters IEC 60068-2-6								
Anti-shock	Button: 70g, Mushroom-headed button: 15g, Selector switch: 200g, meters IEC 60068-2-27								
Mechanical life	Button and button with LED lamp :1.5 ×10 ⁵ ; Selector switch:3×10 ⁵ ;Emergency stop button:0.1×10 ⁵								
Protection degree	IP54 (Front)								
Contact feature	Ui = 600 V, Pollution degree : 3, meets IEC 60947-1, Ui = 600 V								
Rated value	~ AC-15 : A600 or Ue = 240 V and Ie = 3 A --- DC-13: Q600 or Ue = 250 V and Ie = 0.27 A								
Related insulation voltage	Ui = 600 V, Pollution degree : 3, meets IEC 60947-1, Ui = 600 V								
Related voltage of shock resistance	Uimp = 6 kV meets IEC 60947-1								
Contact resistance	1890V AC: 1 min between live and dead metal parts								
Insulation resistance	Below 50mΩ(initial value)								
Reliability	Above 100MQ								
Operation pressure	Safety devices (emergency stop button with mushroom head) : reliable disconnect, meets IEC 60947-5-1(part 3).								
Reliability	10A fusible core type(gl) meets IEC 269-1, VDE 0660-200								
Rated operation power	meets IEC 60947-5-1 appendix C.For AC-15 and DC-13. Operation frequency:3600 times/hour. Power factor: 0.5 AC power supply 50-60Hz ~ Inductive circuit  DC power supply --- Breaking power W Operation- million times <table><tr><td>V</td><td>24</td><td>48</td><td>120</td></tr><tr><td>W</td><td>65</td><td>48</td><td>40</td></tr></table>	V	24	48	120	W	65	48	40
V	24	48	120						
W	65	48	40						
Terminal shape	Push-in terminal								
Wiring	Multi-strand wire with tubular ends of 2×(0.5~1.5)mm ² . Hard wire of single strand of 2×(0.5~1.5)mm ² . Length of recommended crimp end is 8mm.								


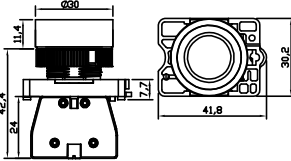

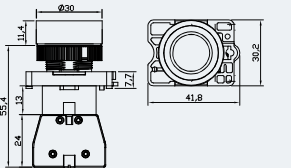

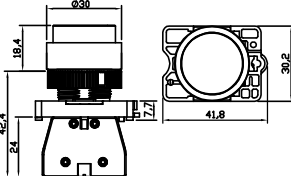

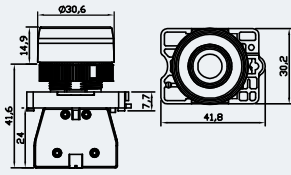
Type and meaning of flush button and mushroom-headed button

UC	2	-	E9	-			
Company code	Design code		Plastic push-in				


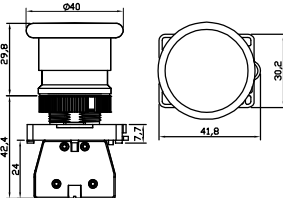

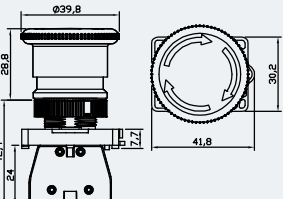

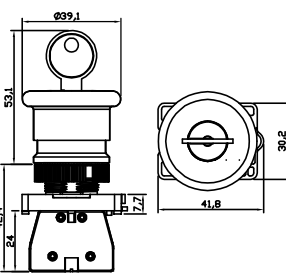


No.	Content	Specification code				
1	Institutional form	A: flush button P: button with booted head S1: Emergency stop button with key Ø40 AZ: flush button, self-locking C: mushroom-headed button Ø40 L: projecting button S5: Emergency stop button				
2	Button color	1: White	3: Green	4: Red	5: Yellow	6: Blue
3	Contact configuration	1: 1NO 4: 2NC 2: 1NC 5: 1NO+1NC 3: 2NO For other type needs, the following contact configuration can be customized: 6: 2NO+2NO 7: 2NO+1NO 8: 2NO+1NC 9: 2NC+1NO 0: 2NC+1NC E: 4NO F: 4NC				

Flush button

Appearance	Name	Type no.	Color	Contact	Dimensions	
	Flush button	UC2-E9-A11	White	1NO		
		UC2-E9-A21	Black			
		UC2-E9-A31	Green			
		UC2-E9-A51	Yellow			
		UC2-E9-A61	Blue	1NC		
		UC2-E9-A22	Black			
		UC2-E9-A42	Red	1NO+1NC		
		UC2-E9-A35	Green			
		UC2-E9-A45	Red			
	Flush button, self-locking	UC2-E9-AZ21	Black	1NO		
		UC2-E9-AZ61	Blue			
		UC2-E9-AZ31	Green			
		UC2-E9-AZ42	Red	1NC		
		UC2-E9-AZ32	Green			
		UC2-E9-AZ45	Red	1NO+1NC		
		UC2-E9-AZ55	Yellow			
	Projecting button	UC2-E9-L21	Black	1NO		
		UC2-E9-L31	Green			
		UC2-E9-L51	Yellow			
		UC2-E9-L61	Blue			
		UC2-E9-L22	Black	1NC		
		UC2-E9-L42	Red			
		UC2-E9-L35	Green	1NO+1NC		
		UC2-E9-L45	Red			
	Button with booted head (with waterproof cover)	UC2-E9-P21	Black	1NO		
		UC2-E9-P31	Green			
		UC2-E9-P51	Yellow			
		UC2-E9-P61	Blue			
		UC2-E9-P42	Red	1NC		
		UC2-E9-P35	Green			
		UC2-E9-P45	Red	1NO+1NC		

Mushroom-headed button

Appearance	Name	Type no.	Color	Contact	Dimensions
	Mushroom-headed button Ø40	UC2-E9-C21	● Black	1NO	
		UC2-E9-C31	● Green		
		UC2-E9-C51	● Yellow		
		UC2-E9-C61	● Blue	1NC	
		UC2-E9-C42	● Red		
		UC2-E9-C35	● Green	1NO+1NC	
		UC2-E9-C45	● Red		
	Emergency stop button Ø40	UC2-E9-S542	● Red	1NC	
		UC2-E9-S545	● Red	1NO+1NC	
	Emergency stop button with key Ø 40	UC2-E9-S142	● Red	1NC	
		UC2-E9-S145	● Red	1NO+1NC	

© Type and meaning of marked button

UC	2	-	E9	-					
Company code	Design code		Plastic push-in						
					1	2	3	4	5

No.	Content	Specification code			
1	Institutional form	A: marked button			
2	Button color	1: white	2: black	3: green	4: red
3	Targeting	3: with maker			
4	Mark symbol	1: I 4: ↑ or ↓ 6: II	4: ⚡ or ⚡	1: I 6: II	2: ○
5	Contact configuration	1: 1NO 4: 2NC			
		2: 1NC 5: 1NO+1NC			
		3: 2NO			
		If need other types, the following contact configuration can be customized:			
		6: 2NO+2NO	7: 2NO+1NO	8: 2NO+1NC	9: 2NC+1NO
		0: 2NC+1NC	E: 4NO	F: 4NC	


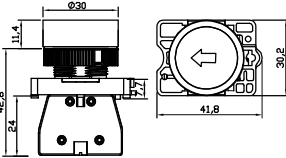
The white button can be marked 1: I 4: ↑ or ↓ 6: II

The black button can be marked 4: ⚡ or ⚡

The green button can be marked 1: I 6: II

The red button can be marked 2: ○

Marked button



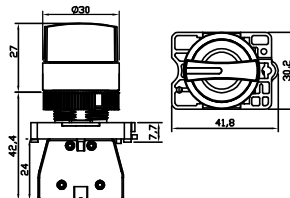







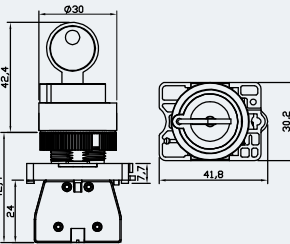









Appearance	Name	Type no.	Color	Contact	Dimensions
	Marked button	UC2-E9-A3311	Green	1NO	
		UC2-E9-A1341	White		
		UC2-E9-A2341	Black		
		UC2-E9-A4322	Red	1NC	
		UC2-E9-A4325	Red	1NO+1NC	

◎Type and meaning of button with LED lamp

UC	2	-	E9	-			
Company code	Design code		Plastic push-in				
					1	2	3

No.	Content	Specification code
1	Institutional form	D: selector switch with short handle J: selector switch with long handle G: key switch
2	Targeting	<div> D: Selector switch with short handle J: Selector switch with long handle G: Key switch </div> <div> 2: self-locking, 2p 4: reset on the right, 2p 6: reset on the left, 2p 8: self-locking on the left and reset on the right, 3p 0: 3p, self-locking, remove in the center 2: 2p, self-locking, remove on the left 4: 2p, self-locking, remove freely 6: 2p, reset on the right, remove on the left 8: 3p, reset on the right, remove on the center A: 3p, self-locking, remove on the right 1: 3p, reset on the left, remove on the right 3: 3p, self-locking, remove in the center 5: 3p, self-locking, remove on the left and right 7: 3p, reset on the right and left, remove on the center 9: 3p, self-locking, remove on the left B: 3p, reset on the left, remove on the center </div>
3	Contact configuration	<div> 1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC </div> <div> For other type needs, the following contact configuration can be customized: 6: 2NO+2NO 7: 2NO+1NO 8: 2NO+1NC 9: 2NC+1NO 0: 2NC+1NC E: 4NO F: 4NC </div>

Selector switch

Appearance	Name	Type no.	Operation	Contact	Dimensions	
	Selector switch with short handle, 2 positions	UC2-E9-D21		1NO		
		UC2-E9-D25		1NO+1NC		
		UC2-E9-D41		1NO		
		UC2-E9-D45		1NO+1NC		
	Selector switch with short handle, 3 positions	UC2-E9-D33		2NO		
		UC2-E9-D53				
	Key switch, 2 position	UC2-E9-G21		1NO		
		UC2-E9-G25		1NO+1NC		
		UC2-E9-G41		1NO		
		UC2-E9-G45		1NO+1NC		
		UC2-E9-G61		1NO		
		UC2-E9-G65		1NO+1NC		
	Key switch, 3 position	UC2-E9-G33		2NO		
		UC2-E9-G73				
		UC2-E9-G03				
		UC2-E9-G83				



UC2-E8

Push-in plastic button and indicator light

Features

UC2-E8 Push-in plastic button and indicator light have the characteristics of anti-vibration, high protection degree, fast speed of wiring and free maintenance. And they also have a wide range of environmental adaptability.

- 1.Faster, safer and more reliable wiring, compared with the traditional screw crimping wiring.
- 2.Wiring speed increases by 2/3.
- 3.Two wires can be inserted at the same potential point, achieving wiring expansion.
- 4.Stainless steel shrapnel structure and rigorous manufacture process are adopted, which is anti-vibration and maintenance-free, greatly reducing the cost of use and maintenance.
- 5.The connection of spring crimp can achieve great contact reliability and excellent vibration resistance regardless of wire size and shape state.
- 6.They reduces maintenance man-hours without screwing and torque control, compared with screw wiring.
- 7.The raised height of the ultra-thin button head is only 2mm in front of the mounting plate.
- 8.Widely applied in fields such as electric power, rail transit, wind power generation, communication and automation machinery.

Standard: : IEC/EN 60947.5.1, GB/T14048.1, GB/T14048.5

◎ The brief of push-in button and indicator light

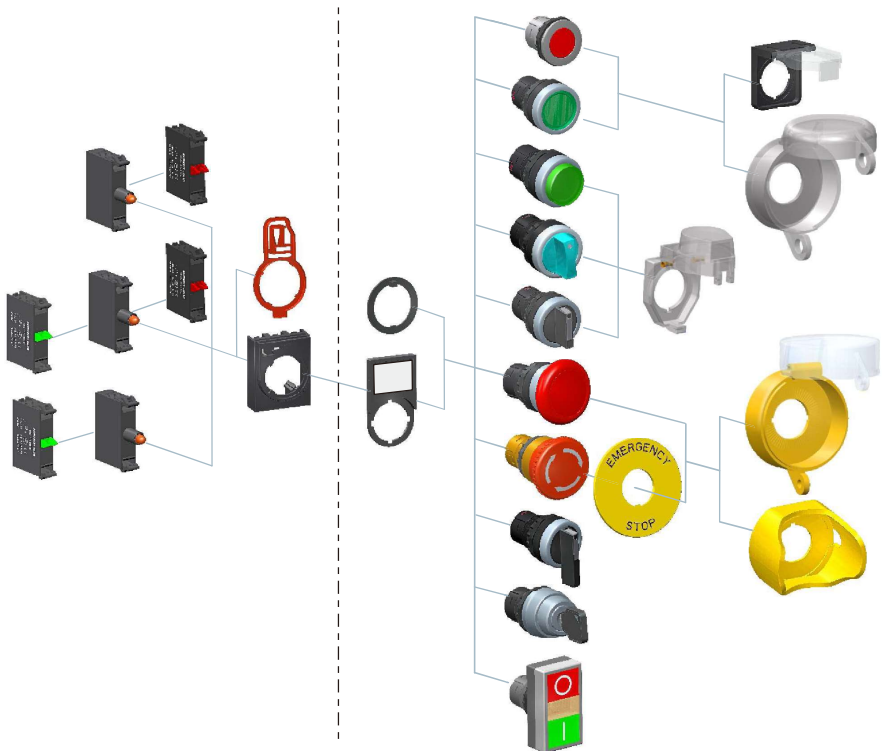
UC2-E8 Push-in plastic button and indicator light are pushed in directly with shrapnel wiring technology, which achieves fast wiring and reliable installation. Compared with the traditional wiring, its wiring speed increases by 2/3, installation and removal are more convenient and the efficiency is higher. UC2-E8 Push-in plastic button adopts new middle plate structure, which fixes head and middle plate so that the structure is more secure. And the thickness of button mounting plate up to 8mm.

The imported materials and special processes are applied in UC2-E8. It has the features of great anti-vibration and more reliable wiring. Compared with the screw crimping wiring, it can not have poor contact caused by smaller of the screw crimping torque because of change of vibration and temperature. Therefore, it is very suitable for occasions with frequent vibration and large temperature difference.

E8 is widely used in electrical control cabinets, machine tools and etc, having a number of national patents.

◎ Composition

Composition of UC2-E8 Push-in plastic button

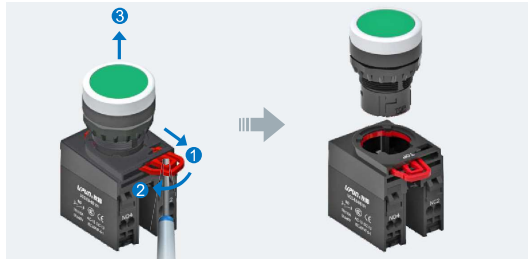


© Installation introduction of push-in button and indicator light

Removal and installation of UC2-E8 push-in plastic button head

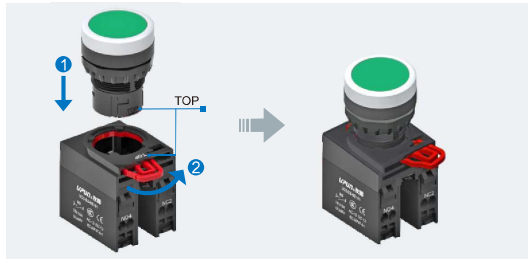
1 Removal

Insert the screwdriver into the middle of the red cardboard, then pull slightly the cardboard outward and take it out toward left.



2 Installation

Insert the head into the middle seat with the same direction of TOP, and move the red card plate to the right. Finally, it can be installed firmly when you hear the click sound.



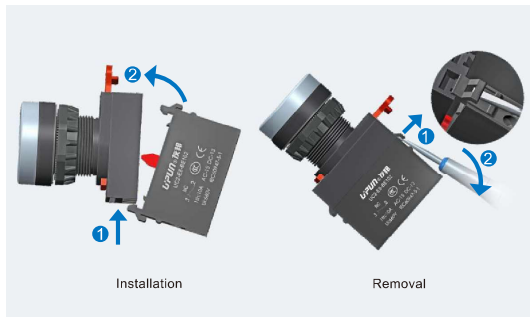
Installation and removal of contact module and lighted mechanism

Installation

Align one side of the contact module with the buckle of the middle board to make the hook part catch the buckle of the middle board. Then install the other side of the contact module towards the direction of the middle board, and confirm that the contact module and the buckle of the middle board are fully buckled, which completes installation.

Removal

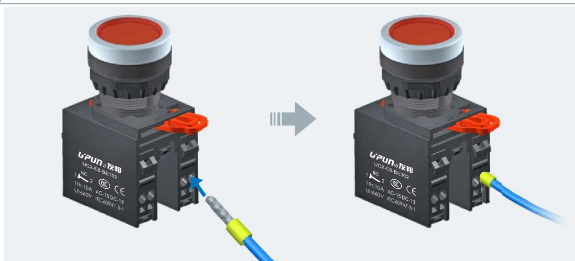
1. Insert the screwdriver into the removal part of the contact module, then forcefully lift up to make the hook part detach from the buckle of the boss of the middle plate.
2. Pull the detached contact module downwards to make the buckle part of other side is also detached, which completes the removal of the contact module.



Connecting and disconnecting wire

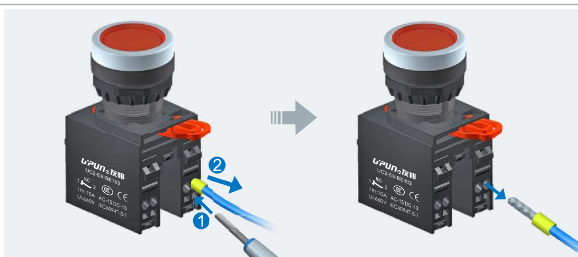
1 Connecting wire (same potential extension)

Insert the wire pressed crimp end directly into the wiring hole to the bottom, which is finishing wiring. Then, please slightly pull the wire up to confirm that the wire cannot be unplugged.



2 Disconnecting wire

Slightly insert the disconnecting hole with a zigzag screwdriver, and the wire will pop out.



© Connecting wire

Wiring conditions

Multi-strand wire with tubular ends
of $2 \times (0.5 \sim 1.5) \text{ mm}^2$
Hard wire of single strand
of $2 \times (0.5 \sim 1.5) \text{ mm}^2$
Length of recommended crimp end is 8mm



Terminal with four-sided crimp
multi-strand flexible wire



Terminal two-sided crimp
multi-strand flexible wire



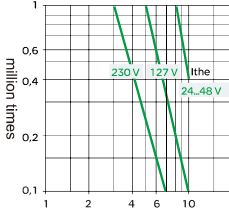
solid wire

Introduction of button wiring diagram

Contact type	NC	NO	Institution with LED lamp
Wiring diagram	1 ——— 2 NC	3 ——— 4 NO	X1 — (X) — X2
Introduction	<p>1.1-2 is for normally closed contact wire. 3-4 is for normally opened contact wire. 2.The light, having no distinction between positive and negative poles, is relatively independent of the switch. The status of light can be controlled by the switch or the outer circuit.</p>		

UC2-E8 Push-in plastic button Ø22mm

Technical data


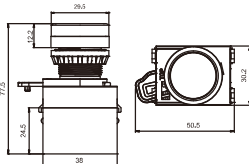

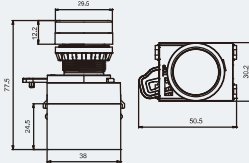

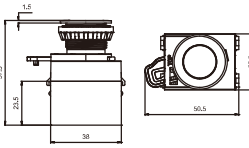
Environmental feature									
Standard	IEC/EN 60947-5-1, GB/T14048.1, GB/T14048.5-1								
Standard usage status	Ambient temperature: -25 ~ +70°C, Environment humidity:45 ~ 85% RH No ice and condensation Storage temperature: -40 ~ +70°C, Environment humidity:45 ~ 85% RH No ice and condensation								
Altitude	≤4000 meters								
Anti-vibration	Mushroom-headed button: 8g, Other buttons and indicator light: 15g (40 Hz < frequency < 500 Hz), meets IEC 60068-2-6								
Anti-shock	Button: 70g, Mushroom-headed button: 15g, Selector switch: 200g, meets IEC 60068-2-27								
Mechanical life	Button:3×10 ⁶ times , "Emergency stop button :3×10 ⁶ times								
Electrical life	5×10 ⁶ times								
Protection degree	IP65(customizable)								
Contact feature									
Rated value	~ AC-15 : A600 or Ue = 240 V and Ie = 3 A --- DC-13: Q600 or Ue = 250 V and Ie = 0.27 A								
Related insulation voltage	Ui = 600 V , Pollution degree : 3, meets IEC 60947-1, Ui = 600 V								
Related voltage of shock resistance	Uimp = 6 kV meets IEC 60947-1								
Reliability	Safety devices (emergency stop button with mushroom head) : reliable disconnect, meets IEC 60947-5-1(part 3).								
Operation pressure	Flush and projecting buttons 10N with 1 NO contact,8N with 1NC contact Second contact 5N with NO contact, 3N with NC contact								
Rated operation power	meets IEC 60947-5-1 appendix C.For AC-15 and DC-13. Operation frequency:3600 times/hour. Power factor: 0.5 AC power supply 50~60Hz ~ Inductive circuit  DC power supply --- Breaking power W Operation- million times <table><tr><td>V</td><td>24</td><td>48</td><td>120</td></tr><tr><td>W</td><td>65</td><td>48</td><td>40</td></tr></table>	V	24	48	120	W	65	48	40
V	24	48	120						
W	65	48	40						
Terminal shape	Push-in terminal								
Wiring	Multi-strand wire with tubular ends of 2×(0.5~1.5)mm ² . Hard wire of single strand of 2×(0.5~1.5)mm ² . Length of recommended crimp end is 8mm.								

◎Type and meaning of flush button,mushroom-headed button and double-headed button


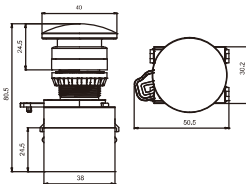

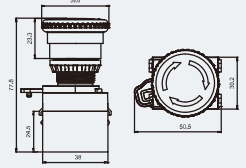
UC	2	-	E8	-			
Company code	Design code		Plastic push-in				
					1	2	3

No.	Content	Specification code					
1	Institutional form	A:flush button T:flush button(ultra-thin head) S5:emergency stop button with mushroom head L83:double-headed flush button					
		AZ:flush button,self-locking C:mushroom-headed button					
2	Button color	1: white	2: black	3: green	4: red	5: yellow	6: blue
		2: red+green(only double-headed button)					
3	Contact configuration	1:1NO 4:2NC	2: 1NC 5: 1NO+1NC	3: 2NO			



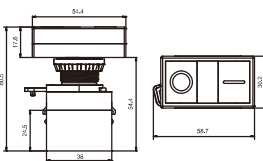
Flush button

Appearance	Name	Type no.	Color	Contact	Dimensions
	Flush button	UC2-E8-A11	White	1NO	
		UC2-E8-A21	Black		
		UC2-E8-A31	Green		
		UC2-E8-A51	Yellow		
		UC2-E8-A61	Blue	1NC	
		UC2-E8-A22	Black		
		UC2-E8-A42	Red	1NO+1NC	
		UC2-E8-A35	Green		
UC2-E8-A45	Red				
	Flush button, self-locking	UC2-E8-AZ21	Black	1NO	
		UC2-E8-AZ31	Green		
		UC2-E8-AZ51	Yellow		
		UC2-E8-AZ61	Blue		
		UC2-E8-AZ22	Black	1NC	
		UC2-E8-AZ42	Red		
		UC2-E8-AZ35	Green	1NO+1NC	
		UC2-E8-AZ45	Red		
	Flush button (ultra-thin head)	UC2-E8-T31	Green	1NO	
		UC2-E8-T41	Red	1NC	
		UC2-E8-T42	Red	1NO+1NC	
		UC2-E8-T35	Green		
		UC2-E8-T45	Red		

Mushroom-headed button

Appearance	Name	Type no.	Color	Contact	Dimensions
	Mushroom-headed button	UC2-E8-C41	Red	1NO	
		UC2-E8-C42	Red	1NC	
		UC2-E8-C45	Red	1NO+1NC	
	Mushroom-headed button, self-locking	UC2-E8-CZ41	Red	1NO	
		UC2-E8-CZ42	Red	1NC	
		UC2-E8-CZ45	Red	1NO+1NC	
	Mushroom-headed button, self-locking	UC2-E8-S541	Red	1NO	
		UC2-E8-S542	Red	1NC	
		UC2-E8-S545	Red	1NO+1NC	

Double-headed button



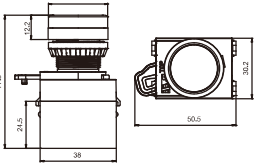







Appearance	Name	Type no.	Color	Contact	Dimensions
	Double-headed button	UC2-E8-L8325		1NO+1NC	

© Type and meaning of button with LED lamp and double-headed button with LED lamp



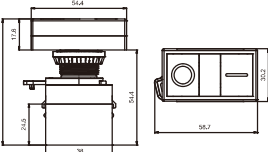
UC	2	-	E8					
Company code	Design code		Plastic push-in					
				1	2	3	4	5

No.	Content	Specification code				
1	Institutional form	W3:flush button with LED lamp W83:double-headed flush button with LED lamp				
2	Color of institution with LED lamp	1: white	3: green	4: red	5: yellow	6: blue
3	Voltage of institution with LED lamp	2: AC DC 12V 7: AC DC 127V	3: AC DC 24V 8: AC 220V	4: AC DC 36V 9: AC 380V	5: AC DC 48V 0: AC DC 220V	6: AC DC 110V
4	Step-down	6: directly				
5	Contact configuration	1:1NO 4 2NC	2: 1NC 5: 1NO+1NC	3: 2NO		

Button with LED lamp

Appearance	Name	Type no.	Color	Contact	Dimensions
	Flush button with LED lamp	UC2-E8-W33□61	 Green	1NO	
		UC2-E8-W34□62	 Red	1NC	
		UC2-E8-W35□65	 Yellow	1NO+1NC	
		UC2-E8-W36□65	 Blue		
	Flush button with LED lamp, self-locking	UC2-E8-W3Z3□61	 Green	1NO	
		UC2-E8-W3Z4□62	 Red	1NC	
		UC2-E8-W3Z5□65	 Yellow	1NO+1NC	
		UC2-E8-W3Z6□65	 Blue		

Double-headed button with LED lamp



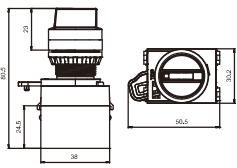




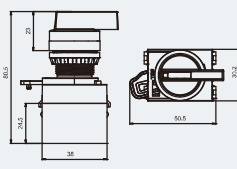




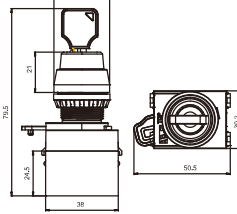



Appearance	Name	Type no.	Color	Contact	Dimensions
	Double-headed button with LED lamp	UC2-E8-W83□65		1NO+1NC	

Type and meaning of selector switch

UC	2	-	E8	-			
Company code	Design code		Plastic push-in				
					1	2	3

No.	Content	Specification code
1	Institutional form	D: selector switch with short handle J: selector switch with long handle G: key switch
2	Targeting	D: Selector switch with short handle J: Selector switch with long handle G: Key switch 2: self-locking, 2p 4: reset on the right, 2p 8: self-locking on the left and reset on the right, 3p 3: self-locking, 3p 5: reset on the right and left, 3p 0: 3p, self-locking, remove in the center 3: 3p, self-locking, remove in the center 6: 2p, reset on the right, remove on the left 8: 3p, reset on the right, remove on the center 2: 2p, self-locking, remove on the left 4: 2p, self-locking, remove freely 7: 3p, reset on the right and left, remove on the center
3	Contact configuration	1: 1NO 4: 2NC 2: 1NC 5: 1NO+1NC 3: 2NO

Selector switch


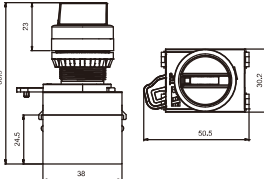
Appearance	Name	Type no.	Operation	Contact	Dimensions	
	Selector switch with short handle, 2 positions	UC2-E8-D21		1NO		
		UC2-E8-D25		1NO+1NC		
		UC2-E8-D41		1NO		
		UC2-E8-D45		1NO+1NC		
	Selector switch with short handle, 3 positions	UC2-E8-D33		2NO		
		UC2-E8-D53				
		UC2-E8-D73				
	Selector switch with long handle, 2 positions	UC2-E8-J21		1NO		
		UC2-E8-J25		1NO+1NC		
		UC2-E8-J41		1NO		
		UC2-E8-J45		1NO+1NC		
	Selector switch with long handle, 3 positions	UC2-E8-J33		2NO		
		UC2-E8-J53				
		UC2-E8-J73				
	Key switch, 2 position	UC2-E8-G21		1NO		
		UC2-E8-G25		1NO+1NC		
		UC2-E8-G41		1NO		
		UC2-E8-G45		1NO+1NC		
		UC2-E8-G61		1NO		
		UC2-E8-G65		1NO+1NC		
	Key switch, 3position	UC2-E8-G33		2NO		
		UC2-E8-G73				
		UC2-E8-G03				
		UC2-E8-G83				

©Type and meaning of key switch

UC	2	-	E8	-						
Company code	Design code		Plastic push-in							
					1	2	3	4	5	6

No.	Content	Specification code
1	Institutional form	K: Key switch
2	Targeting	2: self-locking, 2p 5: reset on the right and left, 3p 7: reset on the left and self-locking on the right 3: self-locking, 3p 6: reset on the left, 2p 4: Reset on the right, 2p
3	Color of institution with LED lamp	1: white 3: green 4: red 5: yellow 6: blue
4	Voltage of institution with LED lamp	2: AC DC 12V 7: AC DC 127V 3: AC DC 24V 8: AC 220V 4: AC DC 36V 0: AC DC 220V 5: AC DC 48V 6: AC DC 110V
5	Step-down	6: directly
6	Contact configuration	1: 1NO 4: 2NC 2: 1NC 5: 1NO+1NC 3: 2NO

Selector switch with LED lamp


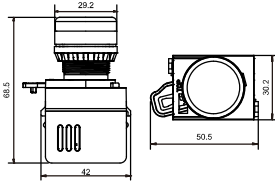
Appearance	Name	Type no.	Operation	Color	Contact	Dimensions
	Selector switch with LED lamp, 2 positions	UC2-E8-K23□65	↘	● Green	1NO+1NC	
		UC2-E8-K24□65	↘	● Red		
		UC2-E8-K25□65	↘	● Yellow		
		UC2-E8-K26□65	↘	● Blue		
		UC2-E8-K21□65	↘	○ White		
		UC2-E8-K43□65	↘	● Green		
	Selector switch with LED lamp, 3 positions	UC2-E8-K44□65	↘	● Red		
		UC2-E8-K33□65	↘	● Green		
		UC2-E8-K34□65	↘	● Red		
		UC2-E8-K35□65	↘	● Yellow		
		UC2-E8-K36□65	↘	● Blue		
		UC2-E8-K31□65	↘	○ White		
		UC2-E8-K53□65	↘	● Green		
		UC2-E8-K54□65	↘	● Red		

◎ Type and meaning of indicator light

UC	2	-	E8				
Company code	Design code		Plastic push-in				
				1	2	3	4

No.	Content	Specification code					
1	Institutional form	V:indicator light					
2	Color of institution with LED lamp	1: white	3: green	4: red	5: yellow	6: blue	
3	Voltage of institution with LED lamp	2: AC DC 12V 7: AC DC 127V	3: AC DC 24V 8: AC 220V	4: AC DC 36V 9: AC 380V	5: AC DC 48V 0: AC DC 220V	6: AC DC 110V	
4	Step-down	6: directly					

Indicator light

Appearance	Name	Type no.	Color	Voltage with LED lamp	Dimensions
	Indicator light	UC2-E8-V1□6	White	2: AC DC 12V 3: AC DC 24V 4: AC DC 36V 5: AC DC 48V 6: AC DC 110V 7: AC DC 127V 8: AC 220V 9: AC 380V 0: AC DC 220V	
		UC2-E8-V3□6	Green		
		UC2-E8-V4□6	Red		
		UC2-E8-V5□6	Yellow		
		UC2-E8-V6□6	Blue		



AD103-22

Push-in indicator light

Features

AD103-22 Push-in indicator light has the characteristics of anti-vibration, high protection degree, fast speed of wiring and free maintenance. And it also has a wide range of environmental adaptability.

- 1.Faster, safer and more reliable wiring, compared with the traditional screw crimping wiring.
- 2.Wiring speed increases by 2/3
- 3.Two wires can be inserted at the same potential point, achieving wiring expansion.
- 4.Stainless steel shrapnel structure and rigorous manufacture process are adopted, which is anti-vibration and maintenance-free, greatly reducing the cost of use and maintenance.
5. The connection of spring crimp can achieve great contact reliability and excellent vibration resistance regardless of wire size and shape state.
- 6.It reduces maintenance man-hours without screwing and torque control, compared with screw wiring.
- 7.Widely applied in fields such as electric power, rail transit, wind power generation, communication and automation machinery.

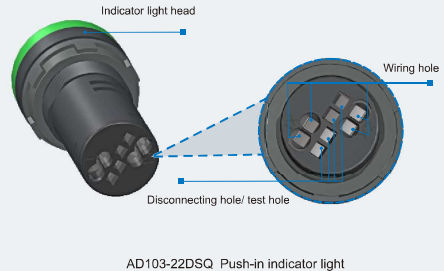
Push-in indicator light Ø22mm

◎ The brief of AD103-22 Push-in indicator light

We adopt an innovative push-in wiring technology, which easily inserts hard wires or multi-strand flexible wires with cold-pressed terminal into the wiring hole to complete single or double extension wiring with the same potential without any tools. When removal of wire, pressing the screwdriver lightly on the orange button can remove wire.

AD103-22 is widely used in electrical control cabinets, machine tools and etc, having a number of national patents.

Installation, wiring and introduction



◎ Installation

1 Connecting wire(same potential expansion)

Insert the wire of the pressed terminal directly into the wiring hole to the bottom, which is finishing wiring. Then, please slightly pull the wire up to confirm that the wire cannot be unplugged.



2 Disconnecting wire

AD103-22DQ wire removal
Using a flat-shaped screwdriver to press the orange disconnect button, push it hard to slide the button in, and pull the wire outward at the same time, pull out the other wires in the same way.

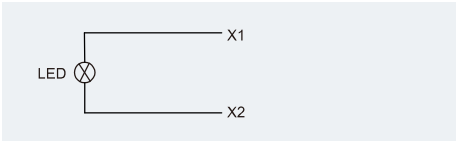


UC2-B9
Push-in indicator light
Ø22mm

Technical data

Environmental feature	
Standard	IEC/EN 60947-5-1, GB/T14048.1, GB/T14048.5-1
Standard usage status	Ambient temperature: -25 ~ +70°C, Environment humidity: 45 ~ 85% RH No ice and condensation Storage temperature: -40 ~ +70°C, Environment humidity: 45 ~ 85% RH No ice and condensation
Altitude	≤4000 meters
Anti-vibration	Indicator light: 15g (40 Hz < frequency < 500 Hz), meets IEC 60068-2-6
Electronic shock protection	Meets GB/T14048.5(8.4.2)
Service life	≥50000 hours under rated condition
Protection degree	Panel front is IP40,P65 can be customized
Related insulation voltage	AC660V
Range of operation voltage	0.8Un≤U≤1.1Un
Voltage resistance	1890V AC· 1 min between live and dead metal parts
Insulation resistance	Above 100MΩ
Terminal shape	Push-in terminal
Wiring	Multi-strand wire with tubular ends of 2×(0.5~1.5)mm². Hard wire of single strand of 2×(0.5~1.5)mm² . Length of recommended crimp end is 8mm.

Wiring code of indicator light port



Push-in indicator light Ø22mm

Type and meaning of push-in indicator light

AD103 - 22

Type

Basic specification code(neck size)

1

2

3


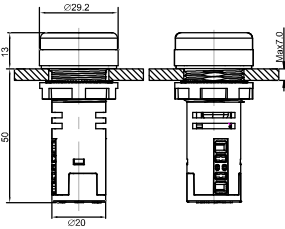

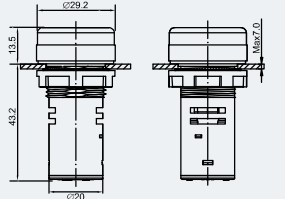
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5


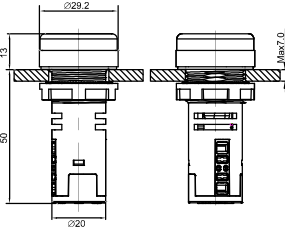

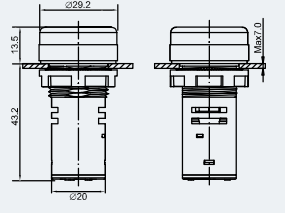
No.	Content	Specification code				
1	Push-in	DQ:standard type		DSQ:ultra-short type		
2	Institutional form	No letter:standard type		F:electric discharge light		
		SM:flashing buzzer		FM: buzzer		
3	Color of indicator light	W: white	G: green	R: red	Y: yellow	B: blue
4	Voltage with LED lamp	22: AC DC 12V	23: AC DC 24V	24: AC DC 36V	25: AC DC 48V	26: AC DC 110V
		27: AC DC 127V	28: DC 220V	31: AC 220V	32: AC 380V	
5	Beep form	A:continuous		B:discontinuous		

Note:Marking "K "when the indicator light needs anti-interference (omiting it if no need)

Push-in indicator light





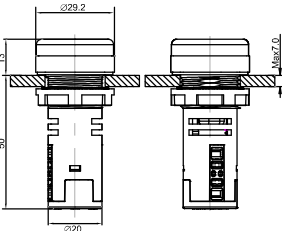













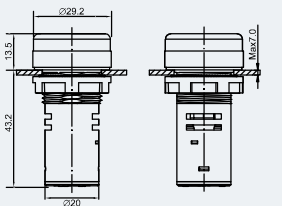












Appearance	Name	Type no.	Color	Voltage with LED lamp	Dimensions
	Push-in indicator light (general type)	AD103-22DQ/	Green	22 AC,DC 12V	
			Red	23 AC,DC 24V	
				24 AC,DC 36V	
			Yellow	25 AC,DC 48V	
				26 AC,DC 110V	
			Blue	27 AC,DC 127V	
				28 DC 220V	
				31 AC 220V	
			White	32 AC 380V	
	Push-in indicator light (ultra-short type)	AD103-22DSQ/	Green	22 AC,DC 12V	
			Red	23 AC,DC 24V	
				24 AC,DC 36V	
			Yellow	25 AC,DC 48V	
				26 AC,DC 110V	
				27 AC,DC 127V	
			Blue	28 DC 220V	
				31 AC 220V	
			White	32 AC 380V	

Push-in electric discharge light





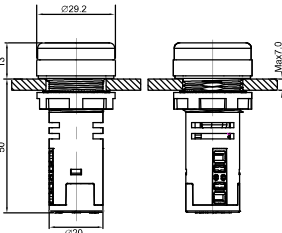













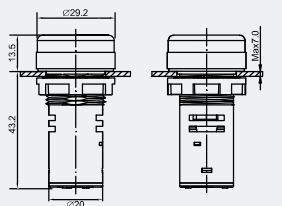












Appearance	Name	Type no.	Color	Voltage with LED lamp	Dimensions
	Push-in electric discharge light (general type)	AD103-22DQF/	Green		
			Red	24 AC,DC 36V	
				25 AC,DC 48V	
			Yellow	26 AC,DC 110V	
				27 AC,DC 127V	
			Blue	28 DC 220V	
				31 AC 220V	
			White	32 AC 380V	
	Push-in electric discharge light (ultra-short type)	AD103-22DSQF/	Green		
			Red	24 AC,DC 36V	
				25 AC,DC 48V	
			Yellow	26 AC,DC 110V	
				27 AC,DC 127V	
			Blue	28 DC 220V	
				31 AC 220V	
			White	32 AC 380V	

Push-in indicator light Ø22mm

Push-in buzzer

Appearance	Name	Type no.	Color	Voltage with LED lamp	Dimensions
	Push-in buzzer (general type)	AD103-22DQFM/  A AD103-22DQFM/  B	 Green		
			 Red	 22 AC,DC 12V	
				 23 AC,DC 24V	
				 24 AC,DC 36V	
			 Yellow	 25 AC,DC 48V	
				 26 AC,DC 110V	
			 Blue	 27 AC,DC 127V	
	Push-in buzzer (ultra-short type)	AD103-22DSQFM/  A AD103-22DSQFM/  B	 Green		
			 Red	 22 AC,DC 12V	
				 23 AC,DC 24V	
				 24 AC,DC 36V	
			 Yellow	 25 AC,DC 48V	
				 26 AC,DC 110V	
			 Blue	 27 AC,DC 127V	
			 White	 31 AC 220V	
				 32 AC 380V	

Push-in flashing buzzer

Appearance	Name	Type no.	Color	Voltage with LED lamp	Dimensions
	Push-in flashing buzzer (general type)	AD103-22DQSM/  	 Green		
			 Red	 22 AC,DC 12V	
				 23 AC,DC 24V	
				 24 AC,DC 36V	
			 Yellow	 25 AC,DC 48V	
				 26 AC,DC 110V	
			 Blue	 27 AC,DC 127V	
	Push-in flashing buzzer (ultra-short type)	AD103-22DSQSM/  	 Green		
			 Red	 22 AC,DC 12V	
				 23 AC,DC 24V	
				 24 AC,DC 36V	
			 Yellow	 25 AC,DC 48V	
				 26 AC,DC 110V	
			 Blue	 27 AC,DC 127V	
			 White	 31 AC 220V	
				 32 AC 380V	



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