

Product Catalogue

JDA2-B/E Series



PUSHBUTTON SWITCHES & PILOT LAMP

ONELITTER ELECTRICITY COMPANY
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Taoyuan City 338, Taiwan (R.O.C.)

PUSH BUTTON SWITCHES & PILOT LAMP(Ø 22 mm)

JDA2-B Series(Metal head),JDA2-E Series(Plastic head)

General Characteristic

Normal working conditions

Conforming to standards	IEC60947-5-1,GB/T 14048.5-93
Operating temperature	Operation: -25°C to +70°C ; Storage: -40°C to +70°C
Altitude	Altitude of installation site couldn't exceed 2000m.
Atmosphere condition	Relative humidity of the atmosphere couldn't exceed 50%.when the highest temperature is +70°C;much higher relative humidity is allowable under the condition of lower temperature,for example,when the temperature reaches +20°C,the relative humidity is up to 90%.As for dews,which contingently appear due to change of temperature, special steps should be taken.
Pollution grade	Grade III
Installation class	Class I

Main technical parameters

Rated insulation voltage U_i	660V					
Conventional heating current I_{th}	10A					
Rated working voltage	380V	220V	110V	48V	24V	
Rated working current I_e	AC-15	2.5A	4.5A	6A	8A	--
	DC-13	--	0.3A	0.6A	1.3A	2.5A

Industrial frequency voltage withstands	2500V AC,one minute.
Contact resistance	$\leq 50m\Omega$ (Initiative value)
Mechanical durability	Flush head style, mushroom head style 1,000,000 times,style with light 300,000 times, others 100,000 times.
Electric durability	Flush head seyle ,mushroom head style ,and double heads style AC 500,000 times, DC 200,000 times, others 100,000 times
Protection grade	IP 65

Rated voltage	Direct type							Resistant type	Transformer type	
	6	12	24	48	110	220	380	220	220	380
Lamp-house										
LED light	√	√	√	√	--	--	--	--	√	√
Neon light	--	--	--	--	√	√	√	√	--	--
Incandescence light	√	√	√	√	--	--	--	--	√	√

PUSH BUTTON SWITCHES & PILOT LAMP(Ø 22 mm)

JDA2-B Series(Metal head),JDA2-E Series(Plastic head)

Select models Guide

Derivative type and Specification code

Derivative type	Specification code		
A: Flush pushbutton L: Extend pushbutton P: Booted pushbutton C: Ø 40 mushroom pushbutton R: Ø 60 mushroom pushbutton	1: (W) 2: (B) 3: (G) 4: (R) 5: (Y) 6: (S)	1: NO 2: NC 3: 2NO 4: 2NC 5:NO+NC	-----
S: Mushroom push and turn to release	4: Ø30 5: Ø40 6: Ø60	4: (Red)	2:NC
D: Selector switch(standard handle) J: Selector switch(long handle) G: Key switch	2: 2 position lock up 3: 3 position lock up 4: 2 position spring return 5: 3 position spring return	1: NO 2: NC 3: 2NO 4: 2NC 5:NO+NC	-----
L8: Button with double heads	3: Flush button 4: Flush button+ Extendend button	2: (R) + (G)	5:NO+NC
W3: Button with light	1: (W) 3: (G) 4: (R) 5: (Y) 6: (S)	4: 220V transformer type 5: 380V transformer type 6: Direct type 7: Resistant type	1: NO 2: NC 3: 2NO 4: 2NC 5:NO+NC
W8: Button with double heads and lamp	4: Flush button+ Extendend button	4: 220V transformer type 5: 380V transformer type 6: Direct type 7: Resistant type	5:NO+NC
V: Pilot lamp	4: 220V transformer type 5: 380V transformer type 6: Direct type 7: Resistant type	1: (W) 3: (G) 4: (R) 5: (Y) 6: (S)	-----
V1:Economic Pilot lamp	6: Direct type	1: (W) 3: (G) 4: (R) 5: (Y) 6: (S)	-----
BE: Contact block	101: NO contaction group 102: NC contaction group	-----	-----

Structure and performance


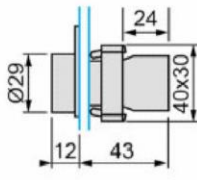

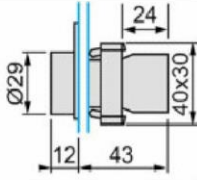

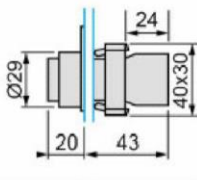

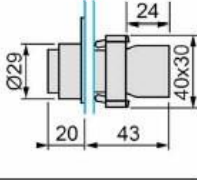

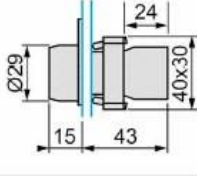
- Adopting anti-moving operation head,the button can't be dismounted from the front side of metal button
- All contacts can play the dual funtions of circuits switching and seof-cleaning,thus under the condition of low voltage and small current flow (5V,5mA),application fo the products ensures reliability of contacting.
- NO and NC contactyor groups are independent to each other,and they can be freely combined with each other according to customers'demands.It is featuring for easy replacement.
- Concealed terminals make its operation much safer and more reliable.Adopting Zinc and aluminum alloymetal on its metal head style acting head and its foundation,the pushbutton switch features for elegant appearance and firmness.
- Button with lamp,signal lamp universally adopt BA9s lamp-socket,customer can choose various bulbs according of their demands.

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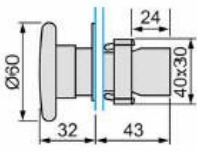
JDA2-B Series PUSH BUTTON SWITCHES & PILOT LAMP(Ø 22 mm)

PUSH BUTTON

Push buttons.spring return

Description	Colour	Contact		Model	Weight	Dimension	
		NO	NC				
 JDA2-BA31	Flush	Black	1	JDA2-BA11	0.070		
		Green	1	JDA2-BA21	0.070		
		Yellow	1	JDA2-BA31	0.070		
		Blue	1	JDA2-BA51	0.070		
		Black	1	JDA2-BA61	0.070		
		Black		1	JDA2-BA22		0.070
		Red		1	JDA2-BA42		0.070
 JDA2-BA3351	Flush Logo	Red with stop symbol	1	JDA2-BA3311	0.070		
		Black with up arrow	1	JDA2-BA3341	0.070		
		Black with down arrow	1	JDA2-BA3351	0.070		
		Green with exclamation mark		1	JDA2-BA4322		0.070
		Red with stop symbol		1	JDA2-BA4342		0.070
 JDA2-BL42	Extended	Black	1	JDA2-BL21	0.070		
		Green	1	JDA2-BL31	0.070		
		Yellow	1	JDA2-BL51	0.070		
		Blue	1	JDA2-BL61	0.070		
		Black		1	JDA2-BL22		0.070
		Red		1	JDA2-BL42		0.070
 JDA2-BL4322	Extended Logo	Red with stop symbol		1	JDA2-BL4322	0.070	
		Red with stop symbol		1	JDA2-BL4342	0.070	
 JDA2-BP42	Booted	Black	1	JDA2-BP21	0.070		
		Green	1	JDA2-BP31	0.070		
		Yellow	1	JDA2-BP51	0.070		
		Blue	1	JDA2-BP61	0.070		
		Red		1	JDA2-BP42		0.070


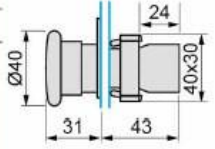

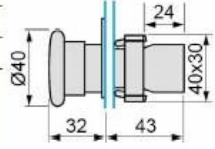

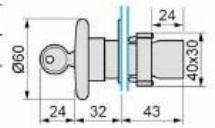
Mushroom head push buttons

Description	Colour	Contact		Model	Weight	Dimension
		NO	NC			
 JDA2-BC42	Mushroom Ø 40 mm	Black	1	JDA2-BC21	0.090	
		Green	1	JDA2-BC31	0.090	
		Yellow	1	JDA2-BC51	0.090	
		Blue	1	JDA2-BC61	0.090	
		Red		1	JDA2-BC42	
 JDA2-BR42	Mushroom Ø 60 mm	Black	1	JDA2-BR21	0.095	
		Green	1	JDA2-BR31	0.095	
		Yellow	1	JDA2-BR51	0.095	
		Blue	1	JDA2-BR61	0.095	
		Red		1	JDA2-BR42	

JDA2-B Series PUSH BUTTON SWITCHES & PILOT LAMP(Ø 22 mm)




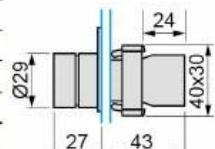


Emergency stop pushbuttons

Latching mushroom head "Emergency Stop" pushbuttons (colour red)




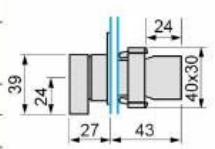


Description	Dia.	Contact		Model	Weight	Dimension
		NO	NC			
 JDA2-BT42	Ø40		1	JDA2-BT42	0.115	
	Ø60		1	JDA2-BX42	0.120	
 JDA2-BS442	Ø30		1	JDA2-BS442	0.085	
	Ø40		1	JDA2-BS542	0.095	
	Ø60		1	JDA2-BS642	0.105	
 JDA2-BS142	Ø30		1	JDA2-BS742	0.130	
	Ø40		1	JDA2-BS142	0.140	
	Ø60		1	JDA2-BS242	0.160	




Selector switches

Standard handle

Description	Locality	Contact		Model	Weight	Dimension	
		NO	NC				
 JDA2-BD21	 		1	JDA2-BD21	0.085		
			1	1	JDA2-BD25		0.100
			1		JDA2-BD41		0.085
			1	1	JDA2-BD45		0.100
3 position	 		2	JDA2-BD33	0.100		
			2	JDA2-BD53	0.100		
			2	JDA2-BD73	0.100		

Long handle



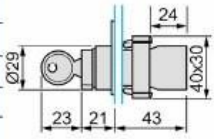









 JDA2-BJ33	 		1	JDA2-BJ21	0.085		
			1	1	JDA2-BJ25		0.100
			1		JDA2-BJ41		0.085
			1	1	JDA2-BJ45		0.100
3 position	 		2	JDA2-BJ33	0.100		
			2	JDA2-BJ53	0.100		
			2	JDA2-BJ73	0.100		




Explain:  :lock up  : 1 spring return from right to left  : 2 spring return to centre

JDA2-B Series PUSH BUTTON SWITCHES & PILOT LAMP(Ø 22 mm)

Key switches (Ronis n° 455)



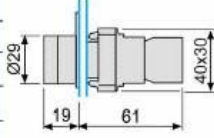





















Key lock switches

Description	Locality	Contact		Model	Weight	Dimension
		NO	NC			
 JDA2-BG21	2 position		1	JDA2-BG21	0.110	
			1 1	JDA2-BG25	0.125	
	3 position		1 1	JDA2-BG41	0.110	
			1 1	JDA2-BG45	0.125	
			1 1	JDA2-BG61	0.110	
			1 1	JDA2-BG65	0.125	
3 position		2	JDA2-BG33	0.125		
		2	JDA2-BG53	0.125		
		2	JDA2-BG03	0.125		
			2	JDA2-BG73	0.125	

Explain:  : lock up  : spring return form right to left  : Key reel off

Push button with lamp

Butch haircut push button with light (spring return)

Power voltage	Colour	Contact		Model	Weight	Dimension	
		NO	NC				
 JDA2-BW3361	Directness		1	JDA2-BW3161	0.120		
			1	JDA2-BW3361	0.120		
	6.3V~ 220V		1	1	JDA2-BW3462		0.120
			1	JDA2-BW3561	0.120		
	With Neon Lamp		1	JDA2-BW3661	0.120		
			1 1	JDA2-BW3365	0.120		
	AC/DC 24V		1	JDA2-BW31B1	0.120		
			1	JDA2-BW33B1	0.120		
		With LED Lamp		1	JDA2-BW34B1		0.120
				1	JDA2-BW35B1		0.120
			1	JDA2-BW36B1	0.120		
			1	JDA2-BW31M1	0.120		
AC 220V		1	JDA2-BW33M1	0.120			
	With LED Lamp		1	JDA2-BW34M1	0.120		
			1	JDA2-BW35M1	0.120		
			1	JDA2-BW36M1	0.120		
	Resistance		1	JDA2-BW3171	0.120		
			1	JDA2-BW3371	0.120		
6.3V~ 220V			1	JDA2-BW3472	0.120		
			1	JDA2-BW3571	0.120		
With Neon Lamp		1	JDA2-BW3671	0.120			
		1 1	JDA2-BW3375	0.120			
	Transformer		1	JDA2-BW3141	0.120		
			1	JDA2-BW3341	0.120		
		220V		1	JDA2-BW3442	0.120	
				1	JDA2-BW3541	0.120	
			1	JDA2-BW3641	0.120		
			1 1	JDA2-BW3345	0.120		



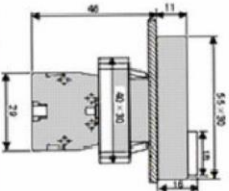





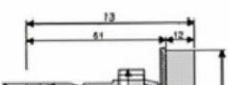



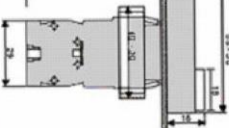



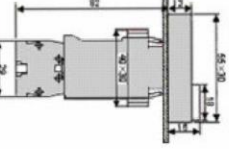


JDA2-BW3371

JDA2-BW3541




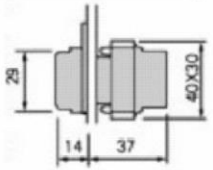







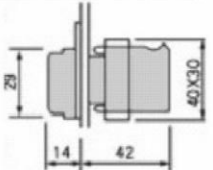







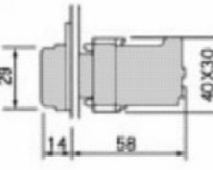




JDA2-B Series PUSH BUTTON SWITCHES & PILOT LAMP(Ø 22 mm)

Double-headed pushbuttons, spring return


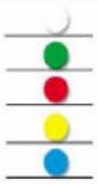

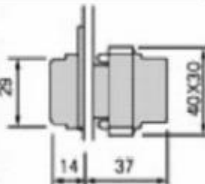
Two button


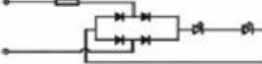
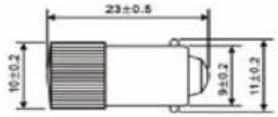

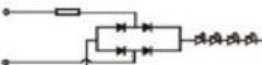
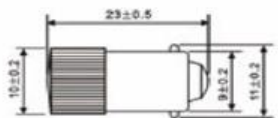
Image	Description	Scheme	Contact		Degree of protection	Model	Dimension
			NO	NC			
 <p>JDA2-BL8425</p>	Without pilot light		1	1	IP 40	JDA2-BL8325	
	1 flush green		1	1	IP 65	JDA2-BL9325	
	2 extended red		1	1	IP 40	JDA2-BL8425	
			1	1	IP 65	JDA2-BL9425	
 <p>JDA2-BW8465</p>	1 flush green		1	1	IP 40	JDA2-BW8365	
	2 pilot light with yellow lens (Direct supply ≤380V) 1 extended red		1	1	IP 40	JDA2-BW8465	
 <p>JDA2-BW8475</p>	1 flush green		1	1	IP 40	JDA2-BW8375	
	2 pilot light with yellow lens (220/250V supply direct through resistor) 1 extended red		1	1	IP 40	JDA2-BW8475	
 <p>JDA2-BW8445</p>	1 flush green		1	1	IP 40	JDA2-BW8345	
	2 pilot light with yellow lens (220/380V 50HZ		1	1	IP 40	JDA2-BW8445	
	supply is through transformer) 1 extended red		1	1	IP 40	JDA2-BW8455	

Pilot Lights

Image	Description	Colour	Supply Voltage	Scheme	Model	Dimension
 <p>JDA2-BV64</p>	Direct not supply bulb		≤380V		JDA2-BV61	
					JDA2-BV63	
					JDA2-BV64	
					JDA2-BV65	
					JDA2-BV66	
 <p>JDA2-BV73</p>	Direct through resistor BA9s, 130V supply bulb		220/250V		JDA2-BV71	
					JDA2-BV73	
					JDA2-BV74	
					JDA2-BV75	
					JDA2-BV76	
 <p>JDA2-BV44</p>	Through transformer 12VA BA9s, 6V supply bulb		110V/50HZ 110~120V/60HZ		JDA2-BV41	
					JDA2-BV43	
					JDA2-BV44	
					JDA2-BV45	
					JDA2-BV46	

ONELITTER

Pilot Lights						
Description	Colour	Supply Voltage	Scheme	Model	Dimension	
 Direct not supply bulb JDA2-BV64		$\leq 380V$		JDA2-BV61		
				JDA2-BV63		
				JDA2-BV64		
				JDA2-BV65		
				JDA2-BV66		

Indicator	Description	Voltage	Color	Contour
 BA9S-LED 6V		AC/DC 6V~24V	<ul style="list-style-type: none"> ● Red ● Green/PG ● Yellow ● Pure Blue ○ White/PW 	
 BA9S-LED 220V		AC/DC 110V~240V	<ul style="list-style-type: none"> ● Red ● Green/PG ● Yellow ● Pure Blue ○ White/PW 	

Comparison of advantages and disadvantages		NO	Voltage	Current	colour	Brightness/m2	Wavelength	Power consumption
LABEL		low voltage	6V AC/DC	$\leq 11mA$	Red	1500mcd	625nm	0.066W
			6V AC/DC	$\leq 11mA$	Yellow	2200mcd	590nm	0.066W
With two screws fixed on the machine. When the vibration will not loose	Use a circular lock ring fixed on the machine. A long time will be loose		6V AC/DC	$\leq 14mA$	Green	2500mcd	525nm	0.084W
			6V AC/DC	$\leq 11mA$	Blue	1000mcd	470nm	0.066W
Material for the titanium alloy. Collision and time is not easy to break	Material for pvc. Collision and time is easy to break		6V AC/DC	$\leq 15mA$	White	2000mcd	/ nm	0.09W
			12V AC/DC	$\leq 12mA$	Red	2500mcd	625nm	0.144W
			12V AC/DC	$\leq 12mA$	Yellow	2500mcd	590nm	0.144W
			12V AC/DC	$\leq 13mA$	Green	6000mcd	525nm	0.156W
			12V AC/DC	$\leq 11mA$	Blue	1000mcd	470nm	0.132W
			12V AC/DC	$\leq 11mA$	White	2500mcd	/ nm	0.132W
Led lamp life of about 50,000 hours (Reference)	Led lamp life of about 50,000 hours (Reference)		24V AC/DC	$\leq 13mA$	Red	2400mcd	625nm	0.312W
			24V AC/DC	$\leq 13mA$	Yellow	2000mcd	590nm	0.312W
			24V AC/DC	$\leq 11mA$	Green	2500mcd	525nm	0.264W
			24V AC/DC	$\leq 11mA$	Blue	1500mcd	470nm	0.264W
Led lamp prices for the Japan's half	Led lamp prices for the Taiwanese doubled	24V AC/DC	$\leq 11mA$	White	2500mcd	/ nm	0.264W	
		110V AC/DC	$\leq 4.5mA$	Red	1800mcd	625nm	0.585W	
		110V AC/DC	$\leq 4.5mA$	Yellow	2100mcd	590nm	0.585W	
		110V AC/DC	$\leq 4.5mA$	Green	3000mcd	525nm	0.585W	
		110V AC/DC	$\leq 4.5mA$	Blue	1400mcd	470nm	0.585W	
Brightness and Power consumption are equivalent with Japan's	Brightness and Power consumption are equivalent with taiwanese	110V AC/DC	$\leq 4.5mA$	White	2600mcd	/ nm	0.585W	
		220V AC/DC	$\leq 2.3mA$	Red	920mcd	625nm	0.529W	
		220V AC/DC	$\leq 2.3mA$	Yellow	1200mcd	590nm	0.529W	
		220V AC/DC	$\leq 2.3mA$	Green	3500mcd	525nm	0.5359W	
The operating voltage range of LED lamp is higher($\pm 20\%$)	The operating voltage range of LED lamp is lower($\pm 10\%$)	220V AC/DC	$\leq 2.3mA$	Blue	880mcd	470nm	0.529W	
		220V AC/DC	$\leq 2.3mA$	White	1500mcd	/ nm	0.529W	

The way to choose LED lamp.

		Voltage	colour
(1)General type	ONE-9	<input type="text"/>	<input type="text"/>
		6.3V	R (red)
		12V	G (green)
		24V	Y (yellow)
		110V	W (white)
		220V	S (blue)

		Voltage	colour	Anti-induction
(2)Anti-induction type	ONE-9	<input type="text"/>	<input type="text"/>	K
		6.3V	R (red)	
		12V	G (green)	
		24V	Y (yellow)	
		110V	W (white)	
		220V	S (blue)	

Example: ① ONE-9 110R General LED 110V. Red

② ONE-9 220GK Anti-induction LED 220V. Green