Product instruction

The Pushbutton Series are used in controlling circuit of AC voltage up to 660V/AC50Hz or 60Hz, and DC voltage below 400V. It is used for controlling signal and interlocking purposes. The main body of the push buttons adopts zinc alloy and high-grade anti-flam plastic. The contact adopts special silver alloy in order to enjoy the benefit of high anti-electrical erosion. The signal lamp series are suitable for electrical appliances circuit of AC voltage up to 380V/50Hz, and DC voltage below 380V. It is ideal for using as indicating signals, warning signals, emergency signals, etc. Our products comply with IEC60947-5-1.

Model and meanings

BY □ — 1 2 3 4 5

- 5: Refer to the introduction
- 4: According to structure style(Refer to the introduction)
- 3: Optional, blank denotes normal type signal lamp, "1" in it denotes economic type signal lamp
- 2: Denotes structures (Refer to the introduction)
- 1: Material:"B" in it denotes metal type, "E" in it denotes plastic type
- □: Design code
- BY: Push button and Signal lamp

(1) Denote middle base material, "B" in it means metal type, "E" in it means plastic type
(2) Letters denote structure type:
A: Flush button C: ϕ40 Mushroom button R: ϕ60 Mushroom button D: Standard handle knob
J: Long handle knob G: Key switch L: Convex button P: Button with water-prood cover
S: Turn to release type emergency button T: Push and pull type emergency button
W: Button with lamp K: Switch with lamp H: Auto-locking economic button V: Indicator lamp
(3) Optional, blank denotes normal type signal lamp, "1" in it denotes economic type signal lamp
(4) The number after U.A.P.C.R.T.L. means color (refer to table a)
The number after D.J.G.K. means the method of rotary switch (refer to table a)
The number after V means the voltage and middle base structure (refer to table c)
The number after S means mushroom head: 4 means ϕ30; ϕ40; 6 means ϕ60
The number after W means the style of head (refer to table d)
(5) The code of contact type: (the number after S means color)
1 means 1NO 2 means 1NC 3 means 2NO 4 means 2NC 5 means 1NO+1NC 6 means 3NO 7 means 2NC+1N0
8 means 2NO+1NC
a. Color code
1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue 7: Clear
b. Number code denotes all rotary knob
2 means 2-Position stay put 3 means 3-Position stay put 4 means 2-Position spring return
5 means 3-Position stay put
C. Voltage code
3 means 110V~130V Transformer; 4 means 220V~240V Transformer; 5 means 380V Transformer;
6 means 220V~240V direct type; 7 means 220V~240V resistant type; 95 means 415V Transformer
d. This position is defined as follows
1 means diffusion button with raised smoothness cover 3 means diffusion button with flush smoothness cover

Work environment

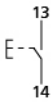
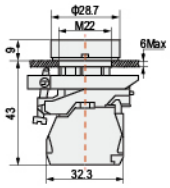
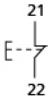
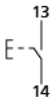
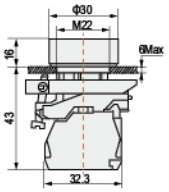
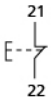
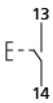
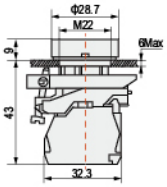
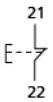
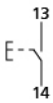
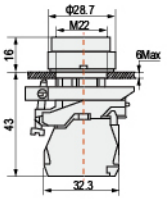
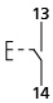
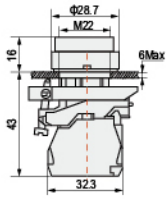
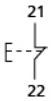
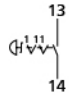
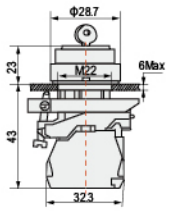
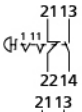
1. Surrounding temperature:-25℃ ~+55℃;
2. Air relative humidity: ≤85%;
3. It can be normal work under following condition: Vibration frequency is 2~80Hz and acceleration speed is 0.7g/h;
4. Pollution grade is Ⅲ, installation sort is Ⅲ, protection grade is up to IP65.
5.Altitude: ≤2000m

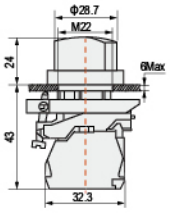
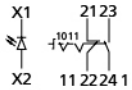
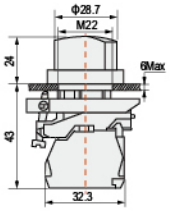
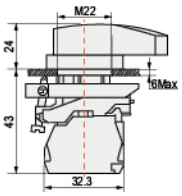
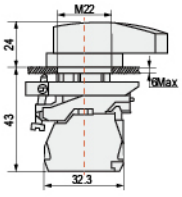
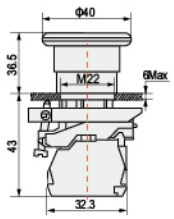
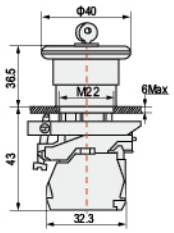
Note

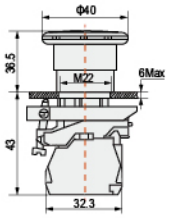
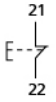
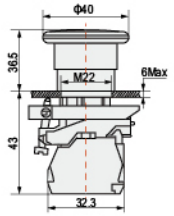
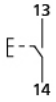
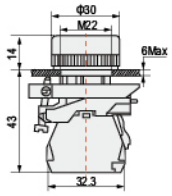
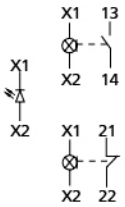
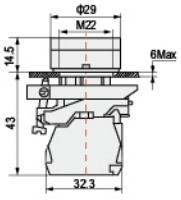
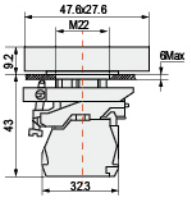
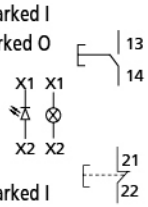
PG denotes pure green; PW denotes pure white

Main technical parameter

Basic technical parameter of button			Basic technical parameter of signal lamp	
Rated insulation voltage	AC 600V (50Hz/60Hz)		Insulation resistance	≥50MΩ
Conventional heating current	10A		Contact resistance	≤25MinΩ
Insulation resistance	≥50MΩ		Pf withstand voltage	AC 2.5KV/min
Contact resistance	≤25MinΩ		Voltage wave	± 20%
Mechanical life	100x 10^4 (Pushbutton)	50x10^4 Selector switch key switches	Brightness	60cd/m^2
Electrical life	500x 10^4 (Pushbutton)	25x10^4 Selector switch key switches	Continuous working life	10x10^4h

Pushbutton	Description	Contact	Circuit	Color	Sign	Type	Contour
 BY2-BA42	Flush button spring return	N/O		Black Green Blue Yellow		BY2-BA21 BY2-BA31 BY2-BA61 BY2-BA51	
		N/C		Red		BY2-BA42	
 BY2-BP31	Flush button (with water-proof cover) Unmarked IP65	N/O		White Black Green Blue Yellow		BY2-BP11 BY2-BP21 BY2-BP31 BY2-BP61 BY2-BP51	
		N/C		Red		BY2-BP42	
 BY2-BA4322	Flush button spring return Marked	N/O		Green Green White Black	I II ↑ or ↓ ↑ or ↓	BY2-BA3311 BY2-BA3361 BY2-BA3341 BY2-BA3351	
		N/C		Red	stop	BY2-BA4322 BY2-BA4342	
 BY2-BL3361	Convex button spring return Marked	N/O		Green Green White Black	I II ↑ or ↓ ↑ or ↓	BY2-BL3311 BY2-BL3361 BY2-BL3341 BY2-BL3351	
		N/C		Red	stop	BY2-BL4322 BY2-BL4342	
 BY2-BL42	Convex button spring return Unmarked	N/O		Black Green Blue Yellow		BY2-BL21 BY2-BL31 BY2-BL61 BY2-BL51	
		N/C		Red		BY2-BL42	
 BY2-BG21	LH position	N/O		2 Position stay put 2 Position spring return		BY2-BG21 BY2-BG41	
	LH and RH position	N/O+N/C		2 Position stay put 2 Position spring return		BY2-BG25 BY2-BG45	
	Center Position	N/O+N/O		3 Position stay put 3 Position spring return		BY2-BG33 BY2-BG53	

Pushbutton	Description	Contact	Circuit	Color	Sign	Type	Contour
 BY2-BD21	Standard handle	N/O		2 Position stay put 2 Position spring return		BY2-BD21 BY2-BD41	
		N/O+N/C		2 Position stay put 2 Position spring return		BY2-BD25 BY2-BD45	
		N/O+N/O		3 Position stay put 3 Position spring return		BY2-BD33 BY2-BD53	
 BY2-BK2565	Standard handle with LED 2Position stay put 3Position stay put	N/O+N/C 220~240V		White/PW Green/PG Yellow Pure blue Red		BY2-BK2165 BY2-BK2365 BY2-BK2565 BY2-BK3665 BY2-BK3465	
 BY2-BJ41	Long handle	N/O		2 Position stay put 2 Position spring return		BY2-BJ21 BY2-BJ41	
		N/O+N/C		2 Position stay put 2 Position spring return		BY2-BJ25 BY2-BJ45	
		N/O+N/O		3 Position stay put 3 Position spring return		BY2-BJ33 BY2-BJ53	
 BY2-BKJ2565	Long handle with LED 2Position stay put 3Position stay put	N/O+N/C 220~240V		White/PW Green/PG Yellow Pure blue Red		BY2-BKJ2165 BY2-BKJ2365 BY2-BKJ2565 BY2-BKJ3665 BY2-BKJ3465	
 BY2-BT42	Push-pull	N/C		Red	 ϕ 40	BY2-BT42	
		N/O+N/C		Red	 ϕ 40	BY2-BT45	
 BY2-BS142	Turn to release by key (n° 455)	N/C		Red	ϕ 40	BY2-BS142	
		N/O+N/C		Red	ϕ 40	BY2-BS145	

Pushbutton	Description	Contact	Circuit	Color	Sign	Type	Contour
 BY2-BS542	Turn to release Red	N/C		Red	ϕ 30 ϕ 40	BY2-BS442 BY2-BS542	
		N/O+N/C		Red	ϕ 40 ϕ 60	BY2-BS545 BY2-BS645	
 BY2-BC42	Mushroom head Spring return	N/C		Red	ϕ 40 ϕ 30	BY2-BC42 BY2-BC442	
		N/O		Black Green Red	ϕ 40 ϕ 40 ϕ 60	BY2-BC21 BY2-BC31 BY2-BR42	
 BY2-BV63	Direct bulb included BA9s base fitting Neon LED (BA9S)	130V 220~240V 50~60Hz		White/PW Green/PG Red Yellow Pure Blue		BY2-BV61 BY2-BV63 BY2-BV64 BY2-BV65 BY2-BV66	
 BY2-BW3361	Direct bulb supplied Neon LED (BA9S)	N/O 130V 220~240V N/C		White/PW Green/PG Yellow Pure Blue Red		BY2-BW3161 BY2-BW3361 BY2-BW3561 BY2-BW3661 BY2-BW3462	
 BY2-BL8325	1 flush gree button marked I 1 flush red button marked O unmarked Without pilot light IP40 1 flush gree button marked I 1 flush red button marked O unmarked	N/O+N/C		Green Red Green Red	I I	BY2-BL8325 BY2-BL8425	
 BY2-BW8465	Pilot light with Yellow lens Direct supply 220~240V BA9s blub marked IP40 Neon LED (BA9S)	1 flush gree button marked I 1 flush red button marked O N/O + N/C 1 flush gree button marked I 1 flush red button marked O		Green White Red Green White Red	I I	BY2-BL8365 BY2-BL8465