





TAYEE Brand legend

Since our foundation in 1997, Shanghai TAYEE Electric Co., Ltd has been committed to the manufacturing of electrical control products, our company's plant in Songjiang Industrial District has an area of about 15000m to house the staff of 500+.

1997,we developed the brand new AD17 indicators, Indicator of AD17 series uses LED luminescence chip as light source,and then phased out the Incandescent lamp.

2002,LA42 push button became the famous and popular products,recognized by customers widely.

2007, TAYEE became the leading company in Master appliances field in China.

2012, it was a milestone, we decided to focus on the high-class OEM business.

2017, we became the joint venture, co-worked with Schneider tightly.

TAYEE keep forwarding by innovation and efficiency. Costumers come first, this core enterprising culture make TAYEE be popular among the costumers. Currently, TAYEE has 6 Categories of Products, 50 product series, around 30000 product types. We have already served 12 major industries which have the most influence on Chinese economy. TAYEE is making the biggest contribution to Chinese Manufacturing Industry.



TAYEE has built up the long-term cooperation with Top-level brands, so we always be ahead of our competitors and know the real request of the costumers. TAYEE has accumulated rich experience in this field, we are qualified to provide the solution projects. So TAYEE always figure out what you want and provide the satisfied service.





CONTENT

TPB1 Push button

Product Overview	04
Technical Specification	06
Installation and disassembly	07
Type Specification	10
Push button selection-the complete	12
Push button selection-the part	15
Print on the push button	24
Contact module regulation	26
TPL1 Pilot Light	
Product Overview	21
Pilot light option intruction	22

TPB1 series push button overview

TPB1 series push button is independently developed by the senior technical team of Tayee, which is suitable for various industries.TPB1 series push button complete types, rich color, economic and durable, convenient installation, superior performance. Automatic production, testing, more stringent quality control, quality assurance.

Apperance instruction



Specification:

- Push button head
- 2 Connector
- 3 Contact module



- 4 Company logo
- 5 Rated impulse withstand: 6KV
- 6 Rated insulation voltage:AC690V
- 7 Conventional heating current:10A
- 8 Electrical parameters
- 9 Screw tightening torque 1.2N.m
- Wiring mark(1.2 means normally closed, 3.4 means normally open)
- 11 Contact module model and wiring mark
- Executive standard: IEC 60947, GB/T 14048.1, GB/T 14048.5
- 13 Product certification mark



Main Technical Param	eters									
0.00 400 000 100 000 000 000 000 000 000 0					92-000-00					
Rated insulation voltage Ui	690V									
Conventional heating current 1th		10A								
Rated withstand impulse voltage Uimp					6KV					
Protection level					IP65					
Contact resistance					≤30mΩ	Ω				
Power frequency withstand voltage					2500V/n	nin			0.	
Nominal rating	Usage category	Conventional heating current	When	n the rated wo	rking voltage	is Ue,the rate	d working cu	rent is le	Rated cont	rol capacity VA
4000	40.45	404	120V	240V	380V	480V	500V	600V	Connect	No connectir
A600	AC-15	10A	6A	3A	1.9A	1.5A	1.4A	1.2A	7200	720
0000	DO 40	254	125V	250V	-	400V	500V	600V	Connect	No connectir
Q600	DC-13	2.5A	0.55A	0.27A	2	0.15A	0.13A	0.1A	69	69

Lamp module

Rated working voltage Ue	Rated working current le	Brightness
AC/DC220V、110V、48V、36V、24V、12V、6V AC380V、220V、110V	≤20mA	100 cd/m²w

Electrical life

DC-13

Mechanical life							
Push button head category	Mechanical life (UnitTen thousand times)	Operation frequency (times/H)					
Standard push button Mushroom push button	100	1200					
Knob switch Key Type Option Switch	30	120					
Emergency stop button	10	120					

Usage category	Electrical life (Unit:Ten thousand times)	Operation frequency (times/H)
AC-15	50	1200

50

1200

Certification&Standard

Certification	Standard
CCC、CE、RoHS	GB/T 14048.1、GB/T 14048.5、IEC60947

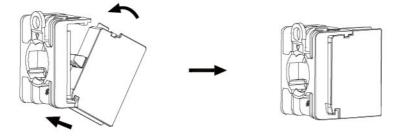
ondition	
Preservation temperature environment	-25°C ~+70°C
Operating temperature environment	-15℃ ~+50℃
Relative humidity of air	≤98%
The limit height of installation	≤2000m
Installation category	ш
Pollution level	3
anti-vibration	10~2000Hz·1mm·15g
Tightening on terminal	0.8~1.2N.m
Tightening on screw thread ring	1.2~1.5N.m
Voltage fluctuation range	±10%



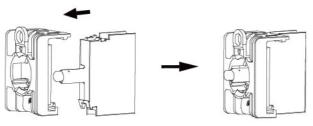
Main Technical Parameters

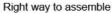
TPB1 push button switch need to assemble on the board with Φ22mm hole, the hole is Φ22.3+0.40, the button could use the board with (1-5)mm thickness.

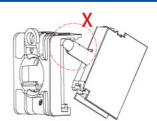
•The pics show how to assemble contacts module



Assemble the plate with lamp

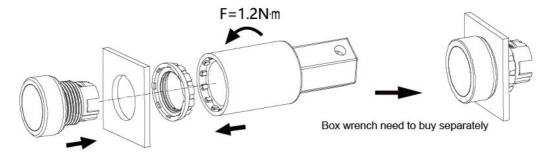




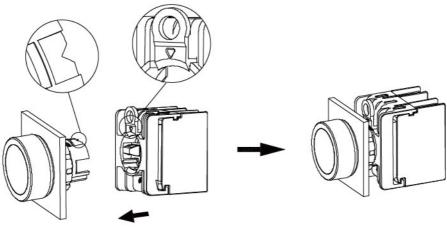


Wrong way to assemble: the head of the plate could not touch the link support

The button head assemble on the board

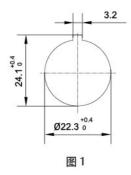


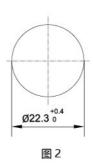
Link support should assemble on the head of the button

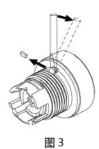




Opening hole on the board

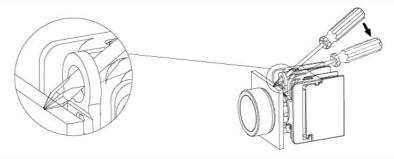




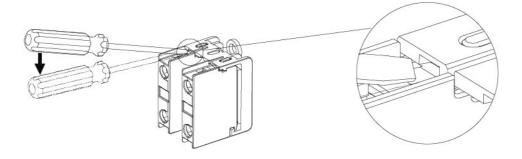


- •Advise to open hole like the Pic 1
- •If the opening hole like Pic2,then need to remove locating block like Pic 3.(we don't advise to use this way)
- •Remark:In case of the rotation of the button because of the wrong assembling,our standard products have the locating hole.

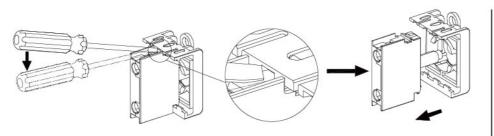
• Disassemble the link support



• Disassemble contact module



• Disassemble the plate with lamp.



Right way to disassemble

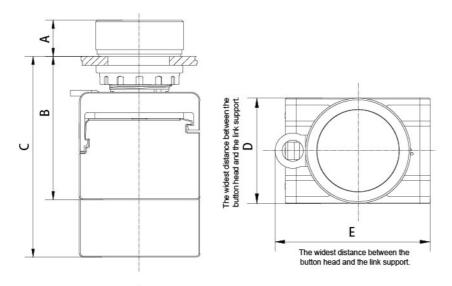


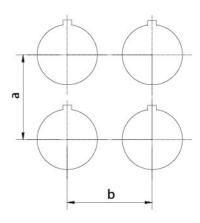
Wrong way to disassemble: the head of the plate could not touch the link support.



Assembling dimension

• Pic4 and pic5 show the size of button and the assembling central distance. Pls find the related parameters in sheet1.





Pic4 TPB1 push button appearance

Pic5 The assembling central distance for TPB1 push button

• The sheet1 The size of the button and assembling central distance

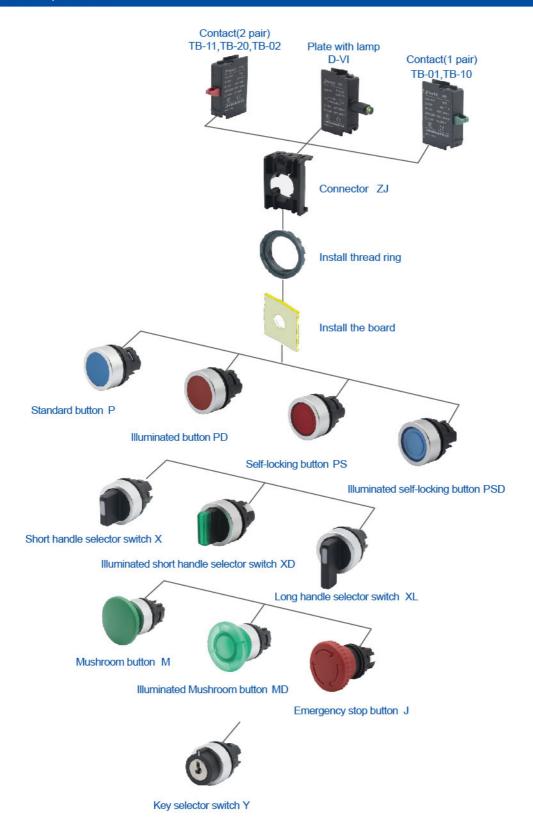
(mm)

Name	Α	В	С	D	E	a	b
Standard button	12.3	48.8	68.4	30	44	50	35
Illuminated button	12.3	48.8	68.4	30	44	50	35
Mushroom button	28	48.8	68.4	40	44	50	45
Illuminated Mushroom button	28	48.8	68.4	40	44	50	45
Self-locking button	12.3	48.8	68.4	30	44	50	35
Illuminated self-locking button	12.3	48.8	68.4	30	44	50	35
Short handle selector switch	27	48.8	68.4	30	44	50	35
Long handle selector switch	27	48.8	68.4	30	44	50	40
Illuminated short handle selector switch	27	48.8	68.4	30	44	50	35
Emergency stop button	28.8	48.8	68.4	40	44	50	45
Key selector switch	46	48.8	68.4	30	44	50	35

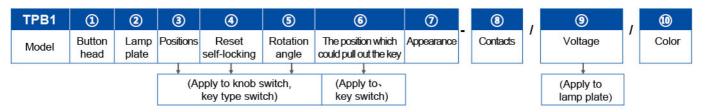
Remark: When a group of button switches are installed on the board side by side, the center distance A of installation hole in the same row and the center distance B of the installation holes in each row shall not be less than the values listed in Table 1.



Selection of TPB1 push button







- The push button model NO: TPB1 123 45 67 8 / 9 / 10
- · Push button attachment model No
- * Pls see below details

Code	Р		PS	-	Х	XL			Υ		R	J		N	Л
Implication	Standard button		self-locking button		handle or switch	Long handl selector swit	953		elector itch		Emergency stop button			Mushroom button	
① ② Illum	inated butto	n head											y to sele switch)	ector swit	ich,
Code	PD		PSD	XD)	XLD		MD		(Code		2		3
Implication	Illuminate Buttor		Illuminated Hocking button	Illuminate selectors		Illuminated long selector switch		uminate nroom		lm	plication	n :	2 positio	ons :	3 positio
④ Reset,s	elf-locking(a	oply to kno	b switch,key	type switch)				-	Rotation (ey sele			to sele	ctor swite	ch,
Code	(2)			AL		AF	₹			ode					9
Implication	Self-locking			set on the left p		Reset on the ri	0 .		Implication		45° or 60°			90°	
присавот	all position	s all the p	ositions self-loo	King on the no	gnt position	self-locking on th	ne ieit pos	SIUON	ШР	ilcauci	4,	5° OI	00		10°
	5000.0 - 007000.0 000000	•			•	self-locking on the	•	SIUON		Appea			00		90°
•	5000.0 - 007000.0 000000	•			•		•	SIUON					00		90-
⑥ The pos	ition which o	an pull ou	the key(app		•	Key selector sw	vitch)	SWON			rance	de		Circule	
6 The pos Code	ition which o	an pull ou - nly can pull on the origin	the key(app	ly to selecto	•	Key selector sw B Pull out the key	vitch)	SIUON			rance	de		127	
6 The pos Code	ition which o	an pull ou - nly can pull on the origin	the key(app out the key al position	ly to selecto	•	Key selector sw B Pull out the key	vitch)				rance	de cation	222	127	
Code Implication 8 Contact Code	ition which o	ean pull ou - Inly can pull on the origin y open- 02	the key(appout the key al position	ly to selectorse)	or switch,	Key selector sw B Pull out the key all the position	vitch)	2		Appea	Cox Implic	de cation		- Circule)
© The position Code Implication Code Implication	sition which o	an pull ou - nly can pull on the origin y open- 02 2NC	out the key al position	ly to selectorse)	or switch,	Key selector sw B Pull out the key all the position	vitch) on 1	2 2 2NC	2/\	Appea 21 IO 1N0	rance Cox Implic	de exation	222	- Circule	33
© The position Code Implication Code Implication	s(□Normall	an pull ou - nly can pull on the origin y open- 02 2NC	out the key al position Normally Close 03 10 NOC 1NO	ly to selectorse)	30 3NO	B Pull out the key all the position	vitch) on 12 1NO 2	2 2 2NC	2/\	Appea 21 IO 1N0	rance Cox Implic	de exation	222	- Circule	33

Statement: 1. We have 5 kinds of the contacts in total (TB-01, TB-10, TB-11, TB-20, TB-02)

^{2.}This page makes a statement of common push button. Applicability of different push button head with different color, contacts, voltage ...etc is different.



Push button selection (Purchase the whole push button, only have one code)

Name/Product	Model	Example	Color	Size (mm)
Standard button	TPB1P- ®/@	TPB1P-11/R	(R) (G) (Y) (S) (W) (B)	9.8
Self-locking button	TPB1PS- ® / ⑩	TPB1PS-11/S	(R) (G) (S) (W) (B)	888 9.8 30 44
Illuminated button	TPB1PD-	TPB1PD-11/AC/DC24V/R	©	9.8
Illuminated self-locking button	TPB1PSD-⑧/⑨/⑩	TPB1PSD-11/AC/DC24V/S	©	9.8



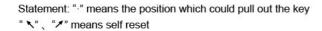
Push button selection (Purchase the whole push button, only have one code)

Name/Product	Model	Example	Gear position	Color	Size	(mm)
Short handle selector switch		TPB1X2-11/B	-AT			
		TPB1X2A-11/B	V ₄₅ °			<u></u> Ø30 ≥ 1
		TPB1X29-11/B	90.		0,00	723
		TPB1X2A9-11/B	>90°	В		
	TPB1X (3(4)(5) - (8) / (0)	TPB1X3-11/B	810, €0.	•		48.8
		TPB1X3A-11/B	45° 45°		9.8	44
		TPB1X3AR-11/B	60-45			
		TPB1X3AL-11/B	45 80'			
Long handle selector switch		TPB1XL2-11/B	60.			
		TPB1XL2A-11/B	45			L 36.5 L
	TPB1XL ③④⑤	TPB1XL29-11/B	√90°			36.3
		TPB1XL2A9-11/B	A30,	В		
	- 8 / 10	TPB1XL3/B-11/B	60, 60.		0 0 0	48.8
		TPB1XL3A/B-11/B	15 45		9.8	44
		TPB1XL3AR-11/B	60-45			
		TPB1XL3AL-11/B	15 60			
Illuminated short handle selector switch		TPB1XD2-11/AC/DC24V/G	60°			do
		TPB1XD2A-11/AC/DC24V/G	25	R	A	Ø30 -
June 1		TPB1XD29-11/AC/DC24V/G	√90°.	G		
	TPB1XD345 -8/9/100	TPB1XD2A9-11/AC/DC24V/G	√ _{90°}	S	0, 0,0	48.8
		TPB1XD3-11/AC/DC24V/G	60 60°	00	9.8	44
		TPB1XD3A-11/AC/DC24V/G	15" 45"			



Push button selection (Purchase the whole push button, only have one code)

Name/Product	Model	Example	Gear position	Color	Size (mm)
Key selector switch		TPB1Y2-11/B	ŀ		
		TPB1Y2B-11/B	·.·		
		TPB1Y2A-11/B	į>		#30 -
The state of the s		TPB1Y29-11/B	•~		99 113
4	TPB1Y 345	TPB1Y29B-11/B	·~·	ß	
(a))	6-8/0	TPB1Y2A9-11/B	$\dot{\sim}$		
		TPB1Y3-11/B	÷		30 44
		TPB1Y3B-11/B	••••		
		TPB1Y3A-11/B	$\dot{\diamondsuit}$		
Emergency stop button	TPB1J- ® / ⑩	TPB1J-11/R	-	R	888 888 988 30 44
Mushroom button	TPB1M- ® / ®	TPB1M-11/G	-	(B) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G	88 88 88 88 44 44
Illuminated Mushroom button	TPB1MD-®/ ⑨/⑩	TPB1MD-11/ AC/DC24V/G	-	(B) (G) (Y) (S) (W)	9,8 30 44





Push button selection-Part(Part:connecctor,contact,lamp plate)

Name/Product	Model	Example	Function	Size (mm)
Contact 01	TPB1-TB-01	-	-	822
Contact 10	TPB1-TB-10	-	-	9.8 41
Contact 11 TAYES THE STATE OF	TPB1-TB-11		-	
Contact 02	TPB1-TB-02	-	-	9.8
Contact 20	TPB1-TB-20	-	-	



Name/Product	Model	Example	Function	Color	
Link support	TPB1-ZJ	-	-	-	307
Plate with Lamp	TPB1D-VI/⑨/⑩	TPB1D-V/AC220V/R	-	® © S W	9.8 41 48 48 48 48 48 48 48 48 48 48 48 48 48
Box wrench	РТ-Т	-	Using box wrench for tightening screw thread ring	ē.	Ø 77AVEE Ø 32 10 11 12 12 13 14 15 17 17 18 18 18 18 18 18 18 18
Connecting rod	PT-G1				Apply to triangle electric screw driver and hexagon socket electric screw driver Clamping range=6.35mm
Connecting rod	PT-G2	-	Used to connecct the wrench box with the electrical screw driver	-	Apply to 801 electric screw driver Clamping range=5mm
Connecting rod	PT-G3				Apply to triangle electrical screw driver and hexagon socket electric screw driver Clamping range=6.35mm



Name/Product	Model	Function	Size (mm)
Plug For Panel	PT-II / ■	In the case of having extra room of opening hole on the board,this plug as a filler to make the appearance better color.	Ø28.2 0 0 1 7 2 7 2 7 2 7 2 7 2 7 2 7 3 7 4 7 7 7 7 7 8 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9
Protective cover	PT-IV	Cover the head of the button, in case of the touching accidently.	46.9 46.9
Protective cover	PT-VIII	Only apply to Standard button and Illuminated button	34 43.2
Protective cover	PT-VIII-A	Only apply to Standard button and Illuminated button	38 -4-3.2 92.3



Name/Product	Model	Function	Size (mm)
Protective cover	PT-VIII-X	Only apply to selector switch and Illuminated selector switch (not 90°)	4-3.2 7 022
Protective cover	PT-VIII-X29	Only apply to 90° selector switch and 90° Illuminated selector switch	43.2 02.2 38
Protective coating	PT-III	Cover the push button head, make the ability stronger to against water and dust (Up to IP67 Level) Only apply to Standard button and Illuminated button.	15.8
Mushroom protective cover	J-III	Apply to LA42(V)M LA42(V)MD	Ø45 Ø22.3 *8.4
Bracket for assembling the rail	DZ-1		45 00 10 10 10 10 10 10 10 10 10



Name/Product	Model	Function	Size (mm)
Two-position button protective cover	PT-X1	In order to increase the ability against the dust and water,it's better cover the button head	56.9 -23.8 -12.7 -23.8 -12.7
Protective ring for emergency stop button	J-V	Avoid touching accidently Apply to LA42 (V)J LA42 (V)JT	3.2 400 3.2 3.2 400 400 400 400 400 400 400 40
Protective cover for emergency stop button	J-IX	Avoid touching accidently Apply to LA42 (V)J LA42 (V)JT	9000 4-3.2 9000 23
Emergency stop marker WERGENCY STOP	J-l	Assembling under the emergency stop button head for attracting attention. Diameter is 60mm	3.2



Name/Product	Model	Function	Size (mm)
Sign board START	PT-I (big)	-	30 00. Ø22
Sign board START	PT-I (small)	-	97 PT-IX(大)
Graved sign board 备用	PT-IX (big)	-	29.6 7. Ø22
Graved sign board 备用	PT-IX (small)	_	29.6 PT-VII

Note: PT-I can be embedded by the user with printing paper sheet or entrust our company to process. For PT-IX (exclusive equipment is needed for lettering), users can provide characters to our company for processing. In the column of Model, "•"note the color.



TPL1 Pilot light introduction

TPL1 series indicator use LED as light source, apply to machine, machinetool, electricity, vessel, metallurgy and chemical industry with 50HZ or 60HZ (we can do the customized frequency according to your requirement), Voltage up to AC 440V and DC 380V.

Using condition

Using environment	-25°C ∼+60°C	Installation level	Ш
The humidity of the air	≤98%	Pollution level	3

Main technical data sheet

Power frequency withstand voltage	2.5KV(Test voltage is AC effective value)				
insulation resistance	≥2MΩ				
Allowable voltage fluctuation	Voltage≤48V Allowable fluction ±5%, Voltage>48V Allowable fluction±20%				
Brightness	≥75mcd				
Ultra high brightness	≥150mcd				
Comparative Tracking Index	CTI≥100				
	The product with "TH" logo can work normally at wet and hot environment(protection level is IP65)				

Model meaning



① Head Type

Code	KA	DB	JB	RB	SG	ТВ	WB	FM/FML	SM/SML
Meaning	KA Indicator	Circuit breaker indicator	Ground signal indicator	State indicator	Flash light	double-color indicator	Isolator position indicator	buzzer	Flash buzzer

② Voltage

Code	DC 24V	DC 36V	DC 48V	DC 110V	DC 220V	AC 110V	AC 220V	AC 380V
0000	502	2000.	20 .01	55	Do LLo.	710 1101	, to LLo .	710 0001

3 Color

Code	R	G	Υ	w	S
Meaning	red	green	yellow	white	blue



Indicator selection

Name/Product	Model & specification	Voltage	Color	Size (mm)
KA type indicator	TPL1-KA/② ③ TPL1-KA/② ③ "H"	Short Shell AC/DC 6V、12V、 24V、36V、48V AC 110V、220V、 380V Long Shell DC(AC)110V DC(AC)220V DC(AC)380V	(G) (Y) (S) (W)	Short Shell Long Shell
Flash light	TPL1-SG/ ② ③	AC/DC 12V、24V、36V、48V、110V AC 110V、220V、380V	(B) (G) (S) (W)	\$29 \$29 \$20
Double-color indicator	TPL1-TB/②③ X1	AC/DC 12V、24V、36V、48V、110V、220V AC 110V、220V、380V	R 6	929
Isolator position indicator	TPL1-WB/ ② ③ X1	AC/DC 12V、24V、36V、48V、110V、220V AC 110V、220V、380V	+ R.G + R + G	\$29 \$3 \$3 \$420



Indicator selection

Name/Product	Model & specification	Voltage	Color	Size (mm)
Breaker position indicator	TPL1-DB/ ②③ X1	AC/DC 24V、36V、 48V、110V、220V AC 110V、220V、 380V	R	\$29 \$9.1
Ground indicator	TPL1-JB/ ② ③	AC/DC 12V、24V、36V、48V、110V、220V AC 110V、220V、380V	R	\$29 \$29
Condition indicator	TPL1-RB/②③ X1	AC/DC 12V、24V AC 220V	R	\$29 \$29 \$29 \$30 \$30 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$4
Buzzer	TPL1-FM/②③ Disconnected sound TPL1-FML/②③ Consecutive Sound Volume of the buzzer is 10cm/80 decibel,, current is15-20mA	AC/DC 12V、24V、 36V、48V、110V AC 110V、220V、 380V	B	929
Flash buzzer	TPL1-SM/②③ (Disconnected sound) TPL1-SML/②③ (Consecutive sound) Volume of sound and flashing Is 10cm/80decibel, current is15-20mA	AC/DC 12V、24V、 36V、48V AC 110V、220V、 380V	R V	929

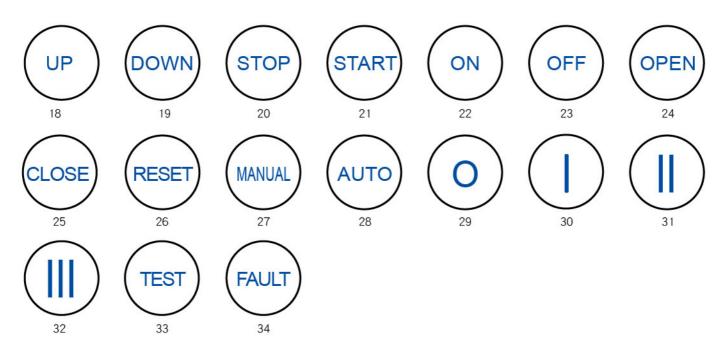


Signs

Chinese signs



Standard signs



Remark:Print black sign on the white button head,Print white sign on other color button's head,If have special requirement,could do the customized.



ISO Signs







36 turn



37 start



38 stop



39 start Stop



Inch (inching)



41Pump









42Cooling pump 43Lubricating pump 44Hydraulic pump

45Automatic Or 46Limited Linear Automatic Circulation Movement



47FJ001



48FJ002



49FJ003



50FJ004



51FJ005



52FJ006



53FJ007



54FY001



55FY002



56FY003



57FY004



The regulation for assembling contact module

Ways to assemble contact module								
Assembling contact module	Ways to assemble contact module	e Remark						
	Use a piece of small contact	All push button heads						
	Use 2 pieces of small contacts	All push button heads						
	Use a piece of small contact+ a piece of big contact	All push button heads						
	Use 2 pieces of big contacts	All push button heads						
		Don't apply to Illuminated push button, Mushroom push button,2 position button						
	Use a piece of small contact +2 pcs of big contacts	These is a crossbeam for Two-position knob switch						
	Use 3 pcs of big contacts	Three-position know switch need 2 metal crossbeam (if have special requirement,pls contact us)						

The state of assembling contacts module

	01	02	03	04	05	06		
10	11	12	13	14	15			
20	21	22	23	24				
30	31	32	33					
40	41	42		Statement: The first digit means the amount of normal open contacts. The second digit means the amount of normal close contacts. For example: 10 means 1 normal open contact and 0 normal close contact.				
50	51							
60				21 means 2 normal open contacts and 1 normal close contact.				





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