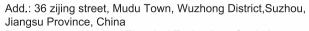
★This manual is a general information puHTication, and we reserve the right to change the product technology and instructions at any time. It is subject to changes without further notice (In case of any error or uncertainty, please understand). The copyright and interpretation rights of the technical dimension booklet of this product are reserved by SUZHOU HUNTEC INT'L TRADING CO., LTD.



Quality - Achieving the Beauty of Industry





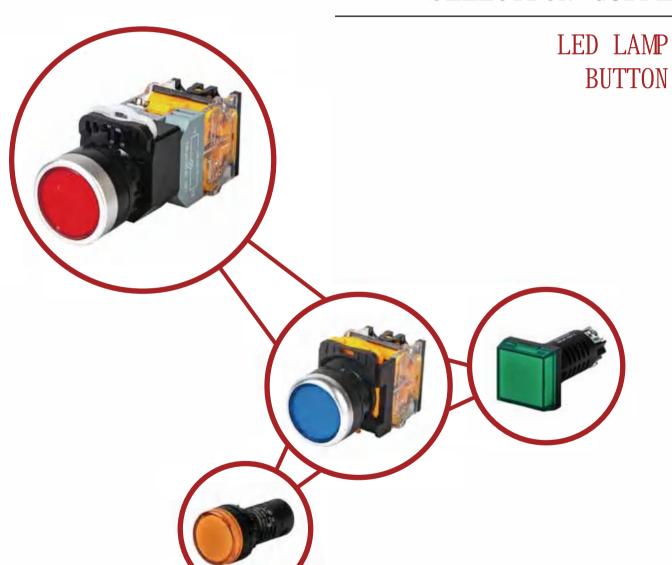
Factory: Jiangxi Huntec Electrical Technology Co.,Ltd. Add.:1829th Yangguang Avenue, Xinyu, Jiangxi Province, China

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HUNTEC



PRODUCT SELECTION GUIDE



Suzhou•Ji angsu•Chi na
SUZHOU HUNTEC INT' L TRADING CO., LTD.

2024 Edition

Where There Is Electricity, There Is Need for Our Products.



Industry applications: Electric power industry (thermal power, hydropower, wind power, nuclear power, solar energy, power transmission and distribution); Machinery industry (machine tools, injection molding machines, spinning machines, lifting machinery and elevators); Transportation industry (rail transit, ships, expressways and airports); Communication industry (communication base stations, communication power supplies); Process automation industry (petroleum, chemical, metallurgy, sewage treatment and building materials).

HTD / HTA SERIES LED LAMP / BUTTON

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03 Qualification Chapter

■ SUZHOU HUNTEC INT'L TRADING CO., LTD.



COMPANY PROFILE

Huntec was founded in 2003, "CHIKU" is our brand name. Huntec is a whole supply chain manufacturer integrating product design, mold design and manufacturing, stamping, turning, injection molding, assemHTy and testing, and its products mainly include DIN rail terminals, signal isolators, fixed connectors, relays, caHTe glands, explosion-proof exhaust plugs, photovoltaic and energy storage connectors, etc. The company has won the honorary titles of national high-tech enterprise and provincial scientific research center for many years. We have nearly 1,000 kinds of products, all of which have passed ISO9001, UL, CE, CQC and other certifications, have a number of independent property rights, and are widely used in industrial automation, communications, rail transit, energy storage, shipbuilding, photovoltaic new energy and other industries.

All products of the company have passed the product certification of the National Quality CQC Certification Center and the product certification of the Classification Society, as well as the leading products have obtained the EU CE safety certification. Through advanced technology and perfect product line, the company is committed to better serving the Chinese market.

ENTERPRISE CULTURE

Integrity: Strong Career Ambition, Consistent Words and Actions.

 $Responsibility: \ Shouldering \ Responsibility \ Proactively, \ Brave \ Enough \ to \ Take \ Responsibility, \ and \ Anti-Ambiert \ Anti-Ambiert \ Anti-Ambiert \ Ambiert \ Am$

Fulfill Responsibility Diligently.

Innovation: Keeping up with the Times, Forging Ahead, and Daring to be the First.

Dedication: Sincere Service, Giving Back to Society

◆ Business Philosophy

 $\operatorname{\texttt{Committed}}$ to providing professional electrical connection for partners solution

◆ Core Values of the Company

Sail far, the same desire to win

◆ Quality Policy

Rigorous and realistic, excellent quality Excellent service, sustainaHTe development

◆ Enterprise Vision

We are committed to keeping China's electrical connection technology synchronized with the world and creating for global technology customers Better investment return and experience

To manufacture the best switches in the industrial control field! HUNTEC ELECTRIC serves you sincerely.





HTD Series Signal Lamps

◆0verview

HTD series signal lamps all adopt high brightness solid color LED emitting chip as light source, with long lifespan, low energy consumption, small size and light weight. It is an updating & upgrading product of XD's various incandescent lamps and neon signal lamps. The product has passed CCC compulsory product certification by CQC, CE safety certification of EC and marine product type approval of China Classification Society.

◆ Application

HTD series signal lamps are suitaHTe to use as indicator signals, warning signals, accident signals, and other indicating signals in the power, telecommunications, machine tools, ships, textiles, printing, mining machinery, and other equipment.

◆Product standards

GB/T 14048.5

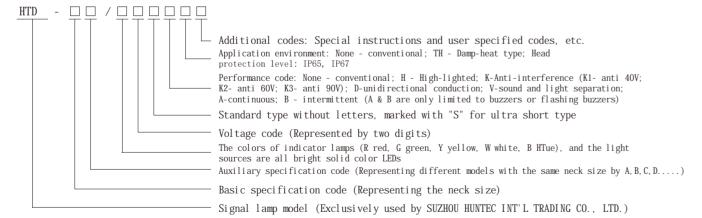
(Current version implemented by 3C certification)

IEC 60947-5-1

◆ApplicaHTe environments

- 1. Environmental temperature: -40°C~+85°C;
- 2. Relative air humidity≤98%;
- 3. It can work normally under a vibration frequency of 2-80Hz and an acceleration of 0.7g;
- 4. Pollution level is Level 3 and installation category is Class III
- 5. Those with the "TH" logo can work in humid tropical environments.

◆Model and naming



◆Main technical indicators

- 1. Power frequency withstand voltage: 2.5KV (AC effective value), 1min
- 2. Insulation resistance $\geq 100 \text{M} \Omega$.

3. AllowaHTe voltage fluctuations of signal lamps \pm 20%.

4. Continuous working life ≥100000H

- 5. Luminance≥100cd/m²
- 6. Comparative tracking index CTI \geq 175, flame retardant
- 7. Head protection level: The signal lamp is IP54, and some can be customized for IP65 or IP67; the buzzer is IP31.
- 8. Use frequency AC50~60Hz







◆Voltage, current, and code comparison taHTe (conventional)

Voltage code	Power supply	Voltage	Current	Voltage code	Power supply	Voltage	Current
15		3. 5V	12mA	16		210V	13mA
18		5V	15mA	31		220V	13mA
21		6V	13mA	46		230V	13mA
22		12V	13mA	45		270V	10mA
23		24V	13mA	54		277V	8mA
20		27V	13mA	32		380V	12mA
14		30V	12mA	41		400V	12mA
24		36V	13mA	33	AC	415V	12mA
25		48V	13mA	35		415V	10mA
34		60V	12mA	39		440V	13mA
17		75V	11mA	36		480V	10mA
26		110V	10mA	42		500V	9mA
43	ACDC	110V-220Uni versal	4mA	37		540V	10mA
51		116V	7mA	53		660V	12mA
50		120V	7mA	38		690V	12mA
27		127V	10mA	92		110V	7mA
28		220V	4mA	90	FD	220V	7mA
48		230V	4mA	29	ги	380V	7mA
19		240V	4mA	30		500V	7mA
49		240V	4mA				
40		250V	5mA				
52		266V	4mA				
44		380V	4mA				
47		400V	4mA				

Note: "FD" in the column of the power supply indicates a discharge lamp that can be installed in a capacitor cabinet, with a current deviation range of \pm 2mA.

◆HTD series anti-interference signal lamps

Due to the use of LED light sources, the sensitivity of HTD series signal lamps is much higher than that of incandescent signal lamps. Therefore, in many signal lamp indication circuits, the presence of interference induced voltage makes many LED lights seemingly bright but not bright, seriously affecting the normal judgment of operators. Therefore, our company has specially developed HTD series anti-interference signal lamps to solve this proHTem. A threshold circuit (usually 10-90V) is installed inside the original signal lamp, where the signal lamp does not light up below the threshold value and lights up above the threshold value.

Cautions

- 1. At present, Φ 22 and corresponding ultra short products of the company can withstand an induced voltage of 20% of the working voltage.
- 2. The cost of the lamp that can withstand an induced voltage of over 20% is RMB 3 to 5 yuan higher than similar signal lamps, and they all require customization, with a production cycle of three working days.
- 3.In the flash circuit, the working current should be above 8mA, and the anti-interference threshold value should not be too large, otherwise the signal lamp may not work
- 4. By optimizing the voltage reduction scheme, ultra short signal lamps can be used for voltages of DC220V and above.



HUNTEC CHIKU HUNTEC ELECTRIC

HTD series signal lamps

Name	Pattern	Model	Color	Lamp voltage	Overall dimension	
Ф22D Model		HTD-22D/□■			12.6 42.3±0.5	
Φ22F Plug-in Type		HTD-22CF/□■		18-AC. DC 5V 21-AC. DC 6V 22-AC. DC 12V 23-AC. DC 24V	21-AC. DC 6V 22-AC. DC 12V	30 00000 ÷ ÷
Ф22F Mode1		HTD-22F/□■	G Y W	24-AC. DC 36V 25-AC. DC 48V 26-AC. DC 110V 27-AC. DC 127V 28-AC. DC 220V 40-AC. DC 250V	S 62 0 44.8± 0.5	
Ф22A Mode1		HTD-22A/□■S	В	31-AC 220V 32-AC 380V 33-AC 240V 29-FD 380V 30-FD 500V	87 0.5 27 27 27 27 27 27 27 27 27 27 27 27 27	
Ф22B Mode1		HTD-22B/□■S		90-FD 220V 91-FD 60V 92-FD 110V	9 88 9 9 12.6 38.2±0.1	
Ф22D Model		HTD-22D/□■S			9 8 12.6 38.1±0.1	

Statement:

- 1. The ultra short indicator lamp (with S added after the model) is suitaHTe for places with narrow installation space;

 2. The indicator lamp of DC power supply can be applied to AC power supply;

 3. All ultra short indicator lamps are applicaHTe to openings with diameters of Φ22 and Φ25, with no need for additional accessories;

 4. Fill in the color in □ the column of model, and fill in voltage level code in column.

 5. After optimization of the design scheme, ultra short indicator lamps can be used for voltages of DC220V and above;

HTD Series Signal Lamps

Name	Pattern	Model	Color	Lamp voltage	Overall dimension	Statement			
Buzzer		HTD-22M/K■	K		R → 13.4 50.5±0.5	The buzzer produces intermittent sound, with a volume of 10cm/80 dBs and a current of 15-20mA.			
Flash buzzer		HTD-22SM/□■	R	18-AC. DC 5V 21-AC. DC 6V 22-AC. DC 12V 23-AC. DC 24V	3.4 50.5 ± 0.5	The buzzer produces intermittent sound or flashes, with a volume of 10cm/80 dBs and a current of 15-20mA.			
DetachaHTe lamp beads		HTD-22D/□■ZH	R G W B	G W B	R :	G	24-AC. DC 36V 25-AC. DC 48V 26-AC. DC 110V 27-AC. DC 127V 28-AC. DC 220V 40-AC. DC 250V 31-AC 220V	13. 4 40. 6± 0. 5	The plug-in structure can replace the luminous lights from the front of the panel under continu- ous power supply
Flash lamps		HTD-22S/□■			32-AC 380V 33-AC 240V 29-FD 380V 30-FD 500V 90-FD 220V 91-FD 60V	13.4 50.5± 0.5	This product has two wiring terminals Flash rate: 30 times/minute, customizaHTe for 60 times/minute		
Circular dual color lamps		HTD−22D/RG■			92-FD 110V	13.4 50.5± 0.5 X1	Warning 1. When using AC type indicator lamps, make sure not to connect the wires incorrectly, otherwise it will damage the indicator lamps. 2. This lamp is a dual color red and green lamp. If other colors are required, please specify separately.		

Statement

Fill Type A, B, C, D, etc. in ■ before the diagonal line of the model, fill the color in □ after the diagonal line, and fill the voltage level code in **a**.

AC dual color lamps are not allowed to have wiring errors (such as X1 and X2 being directly connected to the power supply).





Name	Pattern	Model	Color	Lamp voltage	Overall dimension
Isolation switch		HTD−22W/G■	Red light is emitted when X1X3 is powered on		
Isolation switch position indicatorCircuit breaker position indicator		HTD-22WF/G■	Green light is emitted when X2X3 is powered on	18-AC. DC 5V	7. 5 58
rCircuit breaker p		HTD-22W/D■	Red light is emitted when X1X3 is powered on	21-AC. DC 6V 22-AC. DC 12V 23-AC. DC 24V 24-AC. DC 36V	
osition indicator		HTD-22WF/D■	Green light is emitted when X2X3 is powered on	25-AC. DC 48V 26-AC. DC 110V 27-AC. DC 127V 28-AC. DC 220V 40-AC. DC 250V	
Grounding position indicator		HTD-22W/N■	Red light is emitted when X1X2 is	31-AC 220V 32-AC 380V 33-AC 240V 29-FD 380V	ф 35. 5 ф 22
tion indicator		HTD-22WF/N■	powered on	30-FD 500V 90-FD 220V 91-FD 60V 92-FD 110V	<u>8.5</u>
Grounding position indicator		HTD-22W/NB■	Red light is emitted when X1X3 is powered on		
tion indicator	4	HTD-22WF/NB■	Green light is emitted when X2X3 is powered on		

The isolation switch/circuit breaker position indicator does not allow wiring errors (such as X1, X2 directly connected to the power supply), and the voltage level code is indicated at "■".

HTD Series Signal Lamps

Name	Pattern	Model	Color	Lamp voltage	Overall dimension
Grounding position indicator		HTD-22W/N■-RB (Rotundity)	Red light is emitted when X1X2 is powered on		80 0 13 37.5
Ф22E Mode1		HTD-22E/□■		18-AC. DC 5V 21-AC. DC 6V 22-AC. DC 12V	Si → 12.9 50.9± 0.5
Indicator lamps (plug-in wiring)		HTD-16A/□■	R	23-AC. DC 24V 24-AC. DC 36V 25-AC. DC 48V 26-AC. DC 110V 27-AC. DC 127V	9.5 37
Indicator lamps (screw type wiring)		HTD-16B/□■	G Y W	28-AC. DC 220V 40-AC. DC 250V 31-AC 220V 32-AC 380V 33-AC 240V	9.5 40
Indicator lamps (screw type wiring)		HTD-16B/□■S	В	29-FD 380V 30-FD 500V 90-FD 220V 91-FD 60V 92-FD 110V	9.5 36
Indicator lamps (plug-in wiring)		HTD-16C/□■			Δ 10 40 8

- 1. The color is indicated in " \square " of the model column, and the voltage level code is indicated in " \blacksquare ".
- 2. Wiring forms: Soldering type and plug-in type.
- (1). Soldering type should be avoided as much as possiHTe for wiring, and international universal sockets (4.8 x 0.5mm) should be used for connection, and a protective sheath should be applied.
- (2). When using soldering, solder the terminals within 20W/5 seconds or 260 °C/3 seconds without applying force to the terminals, and the soldering iron should not touch the casing. Prevent stress from acting on the terminals, neither lifting or bending the terminals, nor applying external forces to the terminals.





Name	Pattern	Model	Color	Lamp voltage	Overall dimension		
Ф16F plug-in type		HTD-16F/□■			9.5 40		
Φ16CF plug-in type		HTD-16CF/□■		18-AC. DC 5V 21-AC. DC 6V 22-AC. DC 12V	9.5 40		
Φ16F type buzzer		HTD-16SM/□■F	R G	23-AC. DC 24V 24-AC. DC 36V 25-AC. DC 48V 26-AC. DC 110V 27-AC. DC 127V	9.5 40		
Φ16CF type buzzer		HTD-16SM/□■CF	W B	W	W	31-AC 220V 32-AC 380V 33-AC 240V	9.5
Indicator lamps (plug-in wiring)		HTD-12/□■J		29-FD 380V 30-FD 500V 90-FD 220V 91-FD 60V 92-FD 110V	29.5 TX		
Indicator lamps (plug-in wiring)		HTD-12/□■			7.3 21.34		

- 1. The color is indicated in " \square " of the model column, and the voltage level code is indicated in " \blacksquare ".
- 2. Wiring forms: Soldering type and plug-in type.
- (1). Soldering type should be avoided as much as possiHTe for wiring, and international universal sockets (4.8 x 0.5mm) should be used for connection, and a protective sheath should be applied.
- (2). When using soldering, solder the terminals within 20W/5 seconds or 260 °C/3 seconds without applying force to the terminals, and the soldering iron should not touch the casing. Prevent stress from acting on the terminals, neither lifting or bending the terminals, nor applying external forces to the terminals.

HTD Series Gantry Crane Indicator lamps

◆ Product Introduction

The gantry crane indicator lamps in HTD series indicator lamps are specially developed by BRUDER Electric for the locomotive industry, which serves as an indicator for opening and closing doors. The product adopts ultra-high brightness LED as the light source. It has the characteristics of high brightness, long service life, and good shake resistance. Currently, the product has two specifications to choose from.

◆Use conditions

	Ambient temperature	$-40^{\circ}\mathrm{C}^{\sim}+85^{\circ}\mathrm{C}$	Installation Category Class III
	Relative humidity	≤98%	Pollution level Level 3
	Anti-vibration	10-2000 H2 • 1mm • 15g	Flame retardant level V-0
_	Installation limit height	≤2000m	Protection level: IP67 for exposed parts
	Compliant with EMC directive		

◆Main technical indicators

Rated insulation voltage 400V	Insulation resistance	≥2M			
Power-frequency withstand voltage 2.5kV (test voltage is AC effective value)					
Ultra-high brightness ≥150mcd	Lumi nance	≥75mcd			
Continuous working life ≥100000h	Comparative tracking index	CTI≥100			
PermissiHTe voltage fluctuation Voltage ≤ 48V, AllowaHTe fluctuation ± 5% Voltage > 48V, AllowaHTe fluctuation ± 20%					

◆Product examples HTD-39TD



Voltage DC70~140V Light source Utra high brightness LED Color of the lamp

Wiring method

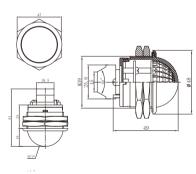
Red, Yellow

The external lead wires of the product is a 0.75-1.2mm² hard conducting wire (Just

insert it)

Product application Shanghai Metro Line 1, Line 9 & Line 11, Chengdu Metro Line 1 and Beijing Metro

Line 10



HTD-84TD



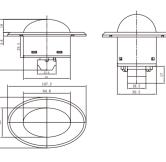
Vol tage Light source Color of the lamp Wiring method

DC70~140V Utra high brightness LED

Red, Yellow, Green Wiring method Just insert 0.75-2.5mm² hard conducting

Product application Shanghai Metro Line 1, Line

9 & Line 11, Chengdu Metro Line 1 and Beijing Metro Line 10

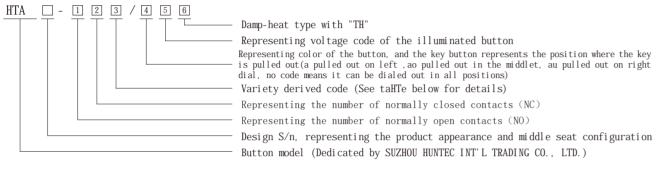




HTA series buttons

HTA series buttons have complete specifications and varieties. According to the shape of the head, it can be divided into circular, square and rectangular buttons. Classified by variety, it can be divided into general buttons and illuminated buttons, etc. The button has a beautiful appearance, clear & transparent LED lighting, as well as a unique and reliaHTe internal structure. It can better meet the user's requirements for panel miniaturization and intensive control. At present, our company has seven series of HTA (1, 1S, 1M, 2, 3, 5, 6) button specifications to choose from, fully considering the requirements of users in various industries.

HTA1% HTA3 series buttons



[1] Representing the number of normally open contacts (NO)

2 Representing the number of normally closed contacts (NC)

3 Variety	deri ved	code
-----------	----------	------

110V

127V

220V

220V

Letter	Meani ng	Letter	Meani ng	Letter	Meani ng
	General button	M	Mushroom button	Υ□	Key knob
D	Button with light	Н	High position button	MXS	Rotating reset mushroom button
S	Self-locking button	Χ□	Short handle knob	MXY	Key reset mushroom button
В	On-off button	CX□	Long handle knob		

* "□" represents the action function, as shown in the taHTe below:

2	Two-gear knob without reset	f3	Three-gear knob with left & right self reset
r	Two-gear knob with self reset	r3	Three-gear knob with right self reset
3	Three-gear knob without reset	L3	Three-gear knob with left self reset

4 Representing the button color

Red	Green	l	Yellow	1	HTue	White	9		HTack		Grey	
R	G		Y		В		W		K		С	
5 Voltage code of	indicator 1	lamp										
Code	21	22	23	24	25	26	27		28	31	32	
Power supply				AC-	DC					50-60	Hz AC	

36V

6 Damp-heat type with "TH"

Voltage

Main technical parameters

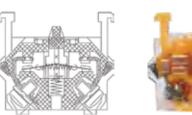
	Fast-action type AC-15 220V/5.5A 380V/4A 660V/1A DC-13 24V/3.6A 48V/2A 110V/1A 220V/0.45A 440V/0.25A							
Rated capacity	Slow-action type AC-15 24V/10A 48V/10A 110V/5A 220V/6.5A 380V/4.3A 660V/2A							
	DC-13 24V/6A 48V/3A 110V/1.2A 220V/0.5A 440V/0.3A							
Contact resistance	Hard silver contact≤50mΩ							
Max. insulation voltage	AC 2500V 50Hz • 1min							
Mechanical lifespan	General buttons≥10×10 ⁶ times Knobs≥3×10 ⁶ times Key knobs≥5×10 ⁵ times Emergency knobs≥5×10 ⁵ times							
Electrical lifespan	\geqslant 5 \times 10 6 times							
Agreed heating current	Ith 10A							
Rated insulation voltage	Ui AC690V							
Ambient temperature	-40°C ~ +85°C							
Front protection	Default IP54, if IP65 is required, please add "- IP65" after the model when placing an order;							
level	The key knob is IP40. HTA1/3 flat head round button can be configured with FJ10 to be IP67							

HTA Series buttons

Component materials

Head outer ring	Middle seat	Head	Contact	Switch housing	Contact pad
AL alloy	Zn or PBT.PA	PC	AgNi	PC	Cu

Contact structure diagram (ApplicaHTe to HTA1 and HTA3 series)









Shrapnel quick-action type

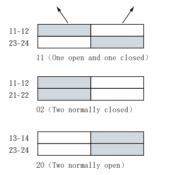
Quick-action contact with self-cleaning mechanism, quick on/off action, and more reliaHTe contact; Good arc extinguishing performance, emitting a crisp sound during operation, providing an auditory signal to the operator.

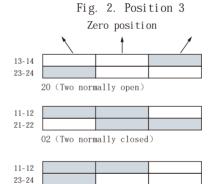
Flat press slow-action type

Compared with the quick-action contact, the conventional translational contact has a larger electrical gap, resulting in a greater current carrying capacity than the quick action contact.

Functional diagram of selection switch contacts

Fig. 1 Position 2





11 (One open and one closed)

11-21

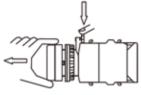
Fig. 3. Position 3

 $HTA\square -21$ (C, Y) $X3A/\square\square\square$ Note: Fig. 1 and Fig. 2 Taking the basic state - two contact groups as an example. Fig. 3 Taking the basic state - three contact roups as an example.

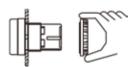
11. 12, 13, 14, 21, and 22 are contact numbers

Representing the closed state of contacts Representing the open state of contacts

Typical installation instructions (applicaHTe to HTA1 & HTA3 series)

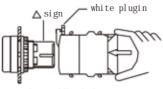


1. Before installation, press the white plug-in component vertically on the fixed seat and horizontally remove the operating component from the fixed seat.

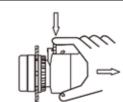


2. Insert the operating components into the installation holes from the front of the panel, and tighten the fixing ring behind the panel (using installation sleeves or by hand). For products with a diameter of 25: Insert the operating

components into the installation holes from the front of the panel, fit the conversion ring on the back of the panel, and then tighten the fixing ring.



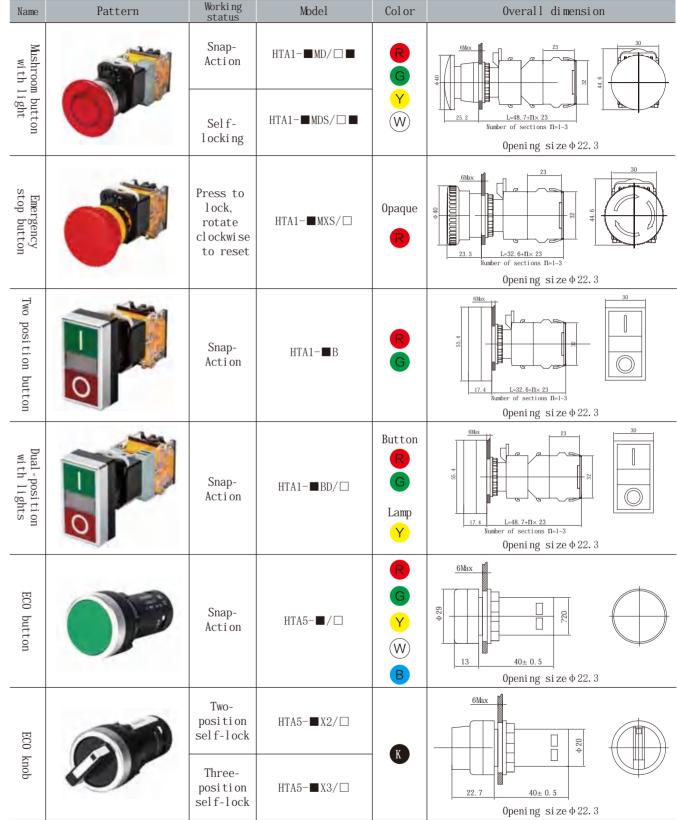
3. After aligning the middle hole position of the white plug-in component with the mark of " \triangle ", lightly fasten the fixed seat and contact group.



4. When disassemHTing, first press the white plug-in component on the fixed seat to remove the fixed seat and contact group in a direction perpendicular to the panel







Opening size ϕ 22.3

2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.

3. The light sources with light buttons are all high brightness solid color LEDs.

Mushroom button Self-HTA1-■MS/□ l ocki ng

HUNTEC CHIKU HUNTEC ELECTRIC

Worki ng

Model

Color

Overall dimension

L=32. 6+N× 23

HTA1 series buttons

Pattern

Name

Snap-HTA1-■/□ Round buttor Action Self-HTA1-■S/ □ L=32.6+N× 23 locking Y Opening size ϕ 22.3 (W)Snap-HTA1-■H/□ High-position round knob Action Self-HTA1-■HS/ □ L=32. 6+N× 23 locking Opening size Φ 22. 3 Round knob with light Snap-HTA1-■D/□■ Action Self-HTA1-■DS/□■ L=48. 7+n× 23 l ocki ng Opening size ϕ 22.3 Y Snap-(W)High-position round knob HTA1-■HD/□■ Action Self-HTA1-■HDS/□■ $\begin{array}{c} L{=}48.\,7{+}n{\times}\,23 \\ \\ \text{Number of sections } n{=}1{-}3 \end{array}$ locking Opening size ϕ 22.3 Snap-HTA1-■M/□ Action

Statement

Remarks

1. Fill the number of normally open and normally closed contacts in ■ before the diagonal line.

- 2. Fill the color in \Box behind the diagonal line, and fill the voltage level do not indicate for the diameter of Φ 40.
- 3. The light sources with light buttons are all high brightness solid color for the emergency stop button.

Statement

1. Fill the number of normally open and normally closed contacts in \blacksquare before 1. If the mushroom head with a diameter of Φ 60 the diagonal line.

2. It is recommended to use a slow-action base





Name	Pattern		Handle position and model	Color	Overall dimension
Short handle knob		Two- position Three-position	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R	$\begin{array}{c} \underline{\text{GMax}} \\ \underline{\text{SS}} \\ $
Long handle knob		Two- position Three-position	L R L C C R HTA1-■CX2/□ HTA1-■CXL2/□ HTA1-■CXr2/□ L C R L C R HTA1-■CX3/□ HTA1-■CXr3/□ L C R L C R HTA1-■CXL3/□ HTA1-■CXr3/□	K	$\begin{array}{c} \text{6Max} \\ \text{6Max} \\ \text{23.6} \\ \text{L-32.6+} \text{Rx} \text{ 23} \\ \text{Number of sections } \text{B=1-3} \\ \\ \text{Opening size } \Phi \text{ 22.3} \\ \end{array}$
Knob with ligh		Two- position Three-position	$\begin{array}{c cccc} L & R & L & R \\ & & & & & & \\ & & & & & \\ L & C & R & & & & \\ & & & & & & \\ HTA1-\blacksquare X2D/\square \blacksquare & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$	G W W	Opening size ϕ 22. 3
Key knob	Special requirements can be customized for a certain position to be pulled out. Note: 1. The self-reset key button cannot be removed from the self-reset action position. 2. Non compatiHTe keys can be numbered from 1 to 20.	Two-position Three-position	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Key removal position Left a In ao Right au	$\frac{6 \text{Max}}{8}$ $\frac{23}{23.6}$ $\frac{1}{\text{L=48.7+N} \times 23}$ Number of sections N=1-3 Opening size ϕ 22. 3

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in \Box behind the diagonal line, and fill the voltage level with the light in \blacksquare .
- 3. The light sources with light buttons are all high brightness solid color LEDs.

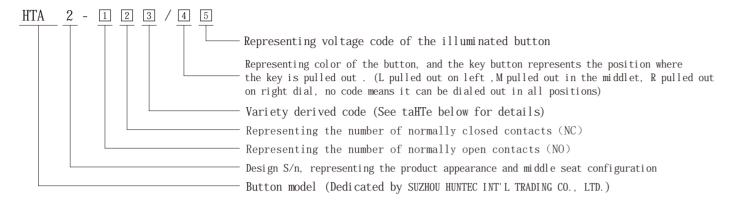
HTA3 series buttons

Name	Pattern	Working status	Model	Color	Overall dimension		
Round button		Snap- Action	НТАЗ-■/□	R G Y W B	6Max 23 30 30 82 82 82 82 82 82 82 82 82 82 82 82 82		
utton		Self- locking	HTA3-■S/ □ (W) B K		$\frac{13}{\text{Number of sections } n=1-3}$ Opening size φ 22. 3		
Round knob with light		Snap- Action	НТАЗ-■D/□■	R G Y	6Max 39.1 30		
with light		Self- locking HTA3-■DS/□■		G Y W B			
Name	Pattern	Handle p	osition and model	Color	Overall dimension		
Short handle knob		Three-position	C R L C R	R	23 30 30 30 St.		
Long handle knob		Position Three-position HTA3-■CX2/L	C R L C R ICX3/□ HTA3-■CXF3/□ C R L C R	Y	Opening size Φ 22. 3 Opening size Φ 22. 3 Number of sections Π =1-3 Opening size Φ 22. 3		

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in \square behind the diagonal line, and fill the voltage level with the light in \blacksquare .
- 3. The light sources with light buttons are all high brightness solid color LEDs.



HTA2 series buttons



- 1 Representing the number of normally open contacts (NO)
- $\fbox{2}$ Representing the number of normally closed contacts (NC)
- 3 Variety derived code

Letter	ter Meaning Letter		Letter Meaning Letter		Meani ng
	General button	M	Mushroom button	Υ□	Key knob
D	Button with light	Н	High position button	MXS	Rotating reset mushroom button
S	Self-locking button	Χ□	Short handle knob	MXY	Key reset mushroom button
В	On-off button	CX□	Long handle knob	J	PullaHTe reset mushroom button
PA	Control switch				

* " \square " represents the action function, as shown in the taHTe below:

2	Two-gear knob without reset	f3	Three-gear knob with left & right self reset
r	Two-gear knob with self reset	r3	Three-gear knob with right self reset
3	Three-gear knob without reset	L3	Three-gear knob with left self reset

4 Representing the button color

Red	Green	Yellow	HTue	White	HTack
R	G	Y	В	W	K

ı	Ъ	
1		
Ī		

-											
	Code 21 22 23 24 25 26 27 28									31	32
	Power Supply	Power Supply AC· DC								A	С
	Voltage	6V	12V	24V	36V	48V	110V	127V	220V	220V	380V

Main technical parameters

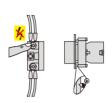
Rated capacity	AC-15 380∨/25A 220V/3A	DC-13	220V/0. 27A 110V/0. 55A		
Agreed heating current	ith 10A	Short circuit protection	RT16-10A		
Rated insulation voltage	Ui AC690V	Protection level	Dual-position knob, illuminated knob IP40, other IP65		
Contact action	Slow action (normally closed or normally open); Normally closed	Impact resistance	≥10g		
CONTRACT ACTION	contacts are directly disconnected	Vibration resistance	<500Hz, amplitude approx. 1.0mm		
Contact resistance	$\leq 50 \text{m} \Omega$	Ambient temperature	-45°C [~] +85°C		
Electrical lifespan	\geqslant 5 \times 10 6 times		Spiral compression type, wiring capacity: Mini. 1×0.5 mm²: Max. With terminal strip 2×1.5 mm², With no terminal strip 1×2.5 mm²		
Mechanical lifespan	Self-reset key \geq 100 \times 10 ⁶ times Other buttons \geq 5 \times 10 ⁶ times	Wi ri ng			
Lamp module parameters	Bead type: LED light-emitting diode	Lamp bead lifespan: ≥	100,000 hours Voltage limit: $0.85 \text{U} \leqslant \text{U} \leqslant 1.1 \text{Ue}$		

HTA Series buttons

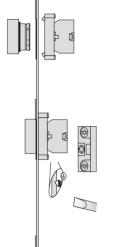
Component materials

Middle seat	Head	Contact	Switch housing
kirsite	ki rsi te	Silver alloy	PBT

Characteristics



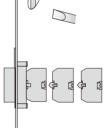
- ComfortaHTe finger press position and switch toggle operation
- Functional identification
- Automatic grounding
- Anti-finger electric shock design



- Overall model HTA2
- Button head contact base assemHTy
- The button head automatically remains in the opening
- Rotate the button head at a certain angle and snap it into the contact base
- Fixed with 2 metal screws
- Anti-vibration
- Automatic grounding
- Open terminal without the need for preloosening screws



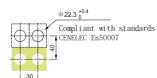
- Chromium plated metal head and mounting base
- Shock-proof screw terminals
- DuraHTe, reliaHTe, with a mechanical lifespan of up
- LED indicator lamps with a lifespan of up to 50000



- Electrical functions
- Up to 1-6 contact modules can be





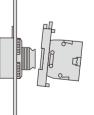




HTA2 series installation panel thickness 1-5mm



- Min. panel surface
- The shallowest installation depth





• Contact base card installation

• High protection level IP65 • Installation of button heads • Rear end screw ring fixation

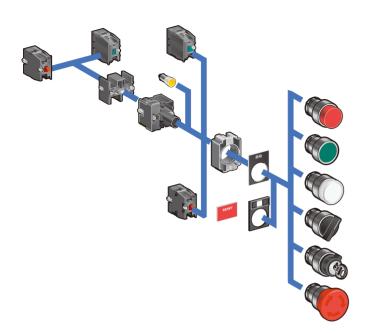
- No tools required
- Fast and sturdy



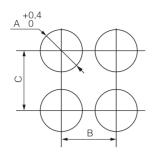


HUNTEC CHIKU HUNTEC ELECTRIC

HTA2 series product composition and accessories display



Installation panel thickness 1-6mm





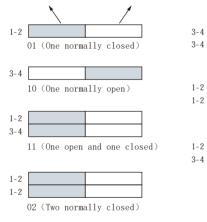
1-2 is the normally closed contact NC 3-4 is the normally open contact NO

Туре	A	В	С
Conventional type		>50	>35
Knob	Ф22. 3	>50	>35
Mushroom type	Ψ22. 3	>50	>42
Big mushroom type		>70	>70

- Remarks:
- 1. Unit: mm
- 2. Both B and Crefer to min. size diagram

Functional diagram of selection switch contacts

Fig. 1 Position 2

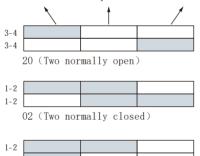


20 (Two normally open)

3-4

Fig. 2. Position 3

Zero position



11 (One open and one closed)

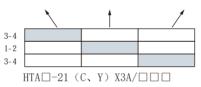


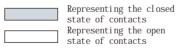
Fig. 3. Position 3

Note:

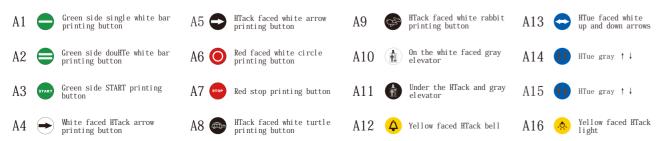
Fig. 1 and Fig. 2 Taking the basic state - two contact groups as an example . Fig. 3 Taking the basic state - three contact

Fig. 3 Taking the basic state - three contact roups as an example.

 $11.\ \ 12,\ \ 13,\ \ 14,\ \ 21,\ \ and\ \ 22\ \ are\ \ contact numbers$



Indicator pattern (remark behind model when placing an order)



HTA2 series buttons

Name	Pattern	Working status	Model	Color	Overall dimension
Flat head self- reset round button		Self- reset	НТА2-■/□	R G Y	12 L=18+24× n n=1, 2, 3
Flat head self- locking round button		Self- locking	HTA2-■S/□	B	12 L=31+24× n n=1, 2, 3
Self-resetround button with light		Self- reset	HTA2− ■ D/□■	R G	20 L=36+24× n n=1, 2, 3
Self-locking circular knob with light		Self- locking	HTA2-■DS/□■	W B	20 L=49+24× n n=1, 2, 3

Statement

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in \square behind the diagonal line, and fill the voltage level with the light in \blacksquare .
- 3. The light sources with light buttons are all high brightness solid color LEDs.





Name	Pattern	Worki ng status	Model	Color	Overall dimension
High position self-reset round button		Self- reset	НТА2-ШН/□	R G	20 L=18+24× n n=1, 2, 3
Mishroom button		Self- locking	НТА2-■М/□	B	D: Two types: 40mm and 60mm 60mm can only be made in red, HTack, and green, please remark.
Emergency stop button		Press to lock, rotate clockwise to reset	HTA2-■MXS/□	R G K	D: Three types: 30mm, 40mm, and 60mm 30mm and 40mm need to be remarked
Key reset emergency stop button		Press lock, key reset	НТА2-■МХҮ/□	R	23 32 L=18+24× n n=1, 2, 3

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.
- 3. The light sources with light buttons are all high brightness solid color LEDs.

Name	Pattern	Handle position and model	Color	Overall dimension
Short handle knob		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		28 L=18+24× n n=1, 2, 3
Long handle knob		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	K	28 L=18+24× n n=1, 2, 3
Knob with light		Dosition L R HTA2-■X2D/□■ L C R Three HTA2-■X3D/□■	R G Y W B	28 L=36+24× n n=1, 2, 3
Key knob		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	L M R Key removal position	23 21 L=18+24× n n=1、2、3
Control switch		Self-reset HTA2- PA2 Self-locking HTA2- PA2 Self-locking HTA2- PA4 Self-locking HTA2- PA4 Self-locking HTA2- PA4S	- K	80 L=18+24× n n=1, 2, 3

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in \square behind the diagonal line, and fill the voltage level with the light in \blacksquare .
- 3. The light sources with light buttons are all high brightness solid color LEDs.





HTA2 accessories

Sample image	Accessory model	Name and purpose	Sample image	Accessory model	Name and purpose
	HTA2-P/■	HTA2 flat round button head		HTA2-MXY	HTA2 key emergency stop button head
	HTA2-D/■	HTA2 flat- head round		HTA2-X2 HTA2-Xr2	HTA2 two- gear short handle knob head
	11112 D) =	button head with light		HTA2-X3 HTA2-Xf3 HTA2-XL3	HTA2 three- gear short handle knob head
	НТА2-Н	HTA2 High- position		HTA2-CX2 HTA2-CXr	HTA2 two- gear long handle knob head
		button head		HTA2-CX3 HTA2-CXf3 HTA2-CXL	HTA2 three- gear long handle knob head
	HTA2-M	HTA2 Mushroom button head Default diameter of \$\phi 40mm, and remarks required for diameter of \$\phi 60mm\$		HTA2−X2D/■	HTA2 two- gear short handle with light knob head
				HTA2−X3D/■	HTA2 three- gear short handle with light knob head
	HTA2-J	HTA2 pull-out mushroom button head		HTA2-Y2 HTA2-Yr2	HTA2 two- gear key knob head
		Default diameter of \$40mm, and remarks required for diameter of \$60mm		HTA2-Y3 HTA2-Yf3 HTA2-YL3	HTA2 three- gear key knob head
	HTA2-MXS	HTA2 emergency stop button head Default diameter of \$\phi 40mm\$, and remarks required for diameter of \$\phi 30mm\$ and \$\phi 60mm\$	CHIKU HTA2-BE 10 3 — A INDI UNION ACIS STANAS CONTANAS CONTANAS CONTANAS CONTANAS	HTA2-BE10	HTA2 normally open contact

HTA Series buttons

Sample image	Accessory model	Name and purpose	Sample image	Accessory model	Name and purpose
CE CHIKU HTA2-BE01 1 2 2 NCI LIBRAY ACH STANDARY CHIRAGE CH	HTA2-BE01	HTA2 normally closed contact		HTA2-S	HTA2 self-locking module, used for self-locking buttons
HTA2-BD	HTA2-BD/□■	HTA2 illuminated module for illuminated buttons		HTA2-Z	HTA2 middle seat, connecting contact and button head

Model Description

Module model

(HTA2-Z) + (HTA2-BE10) + (HTA2-BE01) + (HTA2-P/G)

Complete model HTA2-11P/G











Contact base

Button head

Button







Connection of auxiliary contacts: up to 6 contact modules can be added.

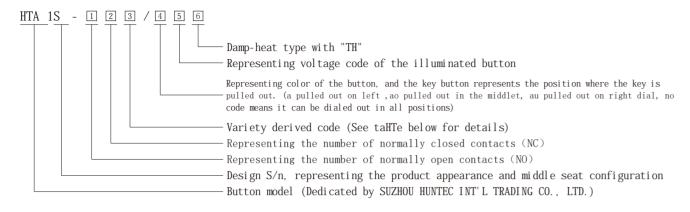
Product Supply Description

The HTA2 series products are supplied in the form of split modules, with the module model HTA2-. Please refer to the HTA2 accessory taHTe for details





HTA1S series buttons



- 1 Representing the number of normally open contacts (NO)
- 2 Representing the number of normally closed contacts (NC)
- 3 Variety derived code

Letter	Meani ng	Letter	Meani ng	Letter	Meani ng
General button		M	Mushroom button	Υ□	Key knob
D	Button with light	Н	High position button	MXS	Rotating reset mushroom button
S	Self-locking button	Χ□	Short handle knob	MXY	Key reset mushroom button
В	On-off button	CX□	Long handle knob		

* " \square " represents the action function, as shown in the taHTe below:

2	Two-gear knob without reset	f3	Three-gear knob with left & right self reset
r	Two-gear knob with self reset	r3	Three-gear knob with right self reset
3	Three-gear knob without reset	L3	Three-gear knob with left self reset

4 Representing the button color

Red	Green	Yellow	HTue	White	HTack	Grey
R	G	Y	В	W	K	С

5 Voltage code of indicator lamp

		. 1								
Code	21	22	23	24	25	26	27	28	31	32
Power supply		AC· DC								
Voltage	6V	12V	24V	36V	48V	110V	127V	220V	220V	380V

6 Damp-heat type with "TH"

Main technical parameters

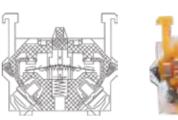
	•							
	Fast-action type AC-15 220V/5.5A 380V/4A 660V/1A DC-13 24V/3.6A 48V/2A 110V/1A 220V/0.45A 440V/0.25A							
Rated capacity	Slow-action type AC-15 24V/10A 48V/10A 110V/5A 220V/6.5A 380V/4.3A 660V/2A DC-13 24V/6A 48V/3A 110V/1.2A 220V/0.5A 440V/0.3A							
Contact resistance	ard silver contact≤50mΩ							
Max. insulation voltage	C 2500V 50Hz· 1min							
Mechanical lifespan	General buttons≥10×10 ⁶ times Knobs≥3×10 ⁶ times Key knobs≥5×10 ⁵ times Emergency knobs≥5×10 ⁵ times							
Electrical lifespan	≥5×10° times							
Agreed heating current	Ith 10A							
Rated insulation voltage	Ui AC690V							
Ambient temperature	-40℃ ~ +85℃							
Front protection level	Default IP54, if IP65 is required, please add "- IP65" after the model when placing an order; The key knob is IP40. HTA1/3 flat head round button can be configured with FJ10 to be IP67							

HTA Series buttons

Component materials

Head outer ring	Middle seat	Head	Contact	Switch housing	Contact pad
AL alloy	PBT. PA	PC	AgNi	PC	Cu

Contact structure diagram (ApplicaHTe to HTA1S series)









Shrapnel quick-action type

Quick-action contact with self-cleaning mechanism, quick on/off action, and more reliaHTe contact; Good arc extinguishing performance, emitting a crisp sound during operation, providing an auditory signal to the operator.

Flat press slow-action type

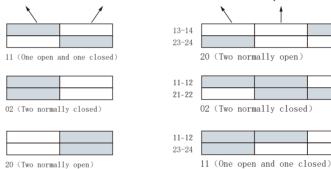
Compared with the quick-action contact, the conventional translational contact has a larger electrical gap, resulting in a greater current carrying capacity than the quick action contact.

Functional diagram of selection switch contacts

Fig. 1 Position 2

13-14

23-24



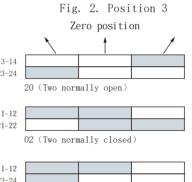
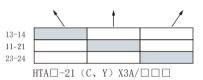


Fig. 3. Position 3

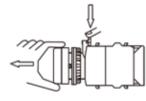


Note: Fig. 1 and Fig. 2 Taking the basic state - two contact groups as an example. Fig. 3 Taking the basic state - three contact

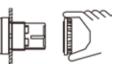
roups as an example. 11. 12, 13, 14, 21, and 22 are contactnumbers

Representing the closed state of contacts Representing the open state of contacts

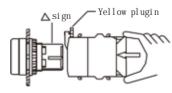
Typical installation instructions (applicaHTe to HTA1 & HTA3 series)



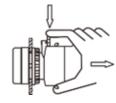
1. Before installation, press the yellow plug-in component vertically on the fixed seat and horizontally remove the operating component from the fixed seat.



2. Insert the operating components into the installation holes from the front of the panel, and tighten the fixing ring behind the panel (using installation sleeves or by hand) For products with a diameter of 25: Insert the operating components into the installation holes from the front of the panel, fit the conversion ring on the back of the panel, and then tighten the fixing ring.



3. After aligning the middle hole position of the yellow plug-in component with the mark of " \triangle ", lightly fasten the fixed seat and contact group.



4. When disassemHTing, first press the white plug-in component on the fixed seat to remove the fixed seat and contact group in a direction perpendicular to the panel.





HTA1S series buttons

Name	Pattern	Worki ng status	Model	Color	Overall dimension	
Round button		Snap- Action	HTA1S-■/□	R	23 30 8E 1F	
utton		Self- locking	HTA1S-■S/□	G	11.6 25.8+N×23 (N=1~3) Opening size Φ 22.3	
High-position round knob		23 30				
si ti on knob		Self- locking	HTA1S-■HS/□	K	17.6 25.8+N×23 (N=1~3) Opening size Φ 22. 3	
Round knob with light			Snap- Acti on	HTA1S-■D/□■	R	16.1 23 30 88 98 98 98 98 98 98 98 98 98 98 98 98 9
with light		Self- locking	HTA1S-■DS/□■	G	Opening size φ 22. 3	
High-position round knob		Snap- Acti on	HTA1S-■HD/□■	W	16. 1 23 30 58 18	
si ti on knob		Self- locking	HTA1S-■HDS/□■		17.6 41.9+n×23 (n=1~3) Opening size Φ 22. 3	
Mushroom button		Snap- Acti on	HTA1S-■M/□	R	23 30	
n button		Self- locking	HTA1S-■MS/□	K	24.7 25.8+n×23 (n=1~3) Opening size Φ 22. 3	

Statement

- 1. Fill the number of normally open and normally closed contacts in \blacksquare before the diagonal line.
- 2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.
- 3. The light sources with light buttons are all high brightness solid color LEDs.

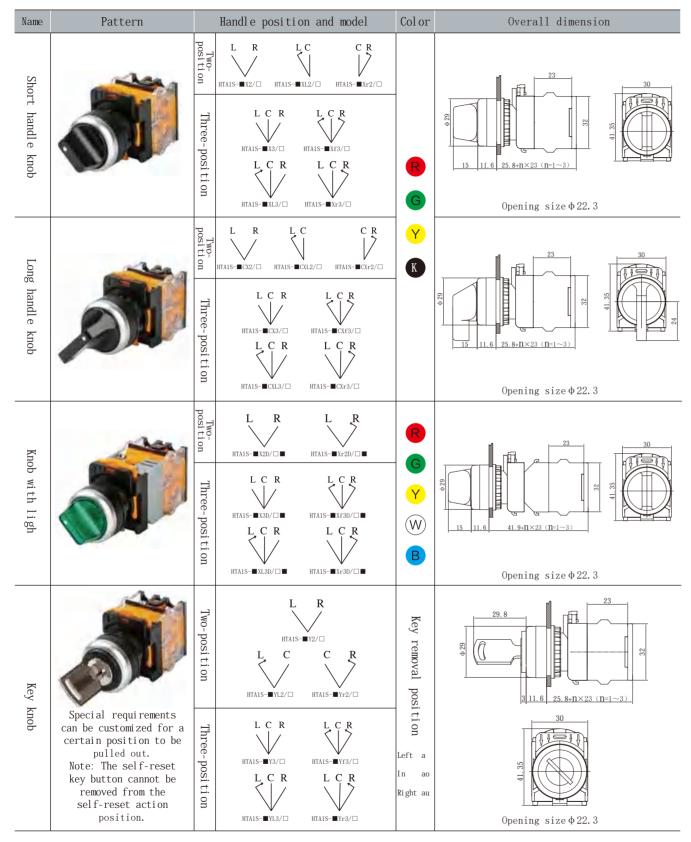
Name	Pattern	Worki ng status	Model	Color	Overall dimension
Mushroom button with light		Snap- Action	HTA1S-■MD/□■	R	16. 1 23 30 62. 8
on with light		Self- locking	HTA1S-■MDS/□■		Opening size ϕ 22. 3
Emergency stop button		Press to lock, rotate clockwise to reset	HTA1S-■MXS/□	Opaque	30 25.8+N×23 (n=1~3)
					Opening size φ 22.3
Two position button		Snap- Action	HTA1S- ■ B/□	R	Opening size φ 22. 3
Dual-position with lights		Snap- Action	HTA1S-■BD/□■	W B	Opening size ϕ 22. 3

- 1. Fill the number of normally open and normally closed contacts in \blacksquare before the diagonal line.
- 2. Fill the color in \square behind the diagonal line, and fill the voltage level with the light in \blacksquare .
- 3. The light sources with light buttons are all high brightness solid color LEDs.



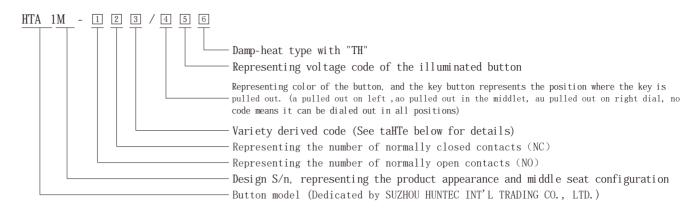






- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.
- 3. The light sources with light buttons are all high brightness solid color LEDs.

HTA1M series buttons



1 Representing the number of normally open contacts (NO)

2 Representing the number of normally closed contacts (NC)

3 Variety derived code

Letter	Meani ng	Letter	Letter Meaning		Meani ng
General button		M	Mushroom button	Υ□	Key knob
D	Button with light	Н	High position button	MXS	Rotating reset mushroom button
S	Self-locking button	Χ□	Short handle knob	MXY	Key reset mushroom button
В	On-off button	CX□	Long handle knob		

* " \square " represents the action function, as shown in the taHTe below:

2	Two-gear knob without reset	f3	Three-gear knob with left & right self reset
r	Two-gear knob with self reset	r3	Three-gear knob with right self reset
3	Three-gear knob without reset	L3	Three-gear knob with left self reset

4 Representing the button color

Red	Green	Yellow	HTue	White	HTack	Grey
R	G	Y	В	W	K	С

5 Voltage code of indicator lamp

Code	21	22	23	24	25	26	27	28	31	32
Power supply				AC·	DC				50-60	Hz AC
Voltage	6V	12V	24V	36V	48V	110V	127V	220V	220V	380V

6 Damp-heat type with "TH"

Main technical parameters

Rated capacity	AC-15 24V/10A 48V/10A 110V/5A 220V/6.5A 380V/4.3A 660V/2A DC-13 24V/6A 48V/3A 110V/1.2A 220V/0.5A 440V/0.3A								
Contact resistance	ard silver contact≤50mΩ								
Max. insulation voltage	C 2500V 50Hz· 1min								
Mechanical lifespan	deneral buttons≥10×106 times Knobs≥3×106 times Key knobs≥5×105 times Emergency knobs≥5×105 times								
Electrical lifespan	≥5×10° times								
Agreed heating current	Ith 10A								
Rated insulation voltage	Ui AC690V								
Ambient temperature	-40°C ~ +85°C								
Front protection level	Default IP54, if IP65 is required, please add "- IP65" after the model when placing an order; The key knob is IP40. HTA1/3 flat head round button can be configured with FJ10 to be IP67								



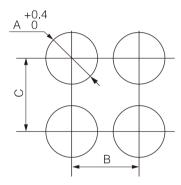
Component materials

Head outer ring	Middle seat	Head	Contact	Switch housing	Contact pad
AL alloy	PBT. PA	PC	AgNi	PC	Cu

Product characterisitics

- ◆ The material meets the requirements of EU RoHS standards.
- ◆ The product adopts a modular combination, which is easy to install and has a reliaHTe structure.
- ◆ Head protection level IP65.

Installation panel thickness 1-6mm

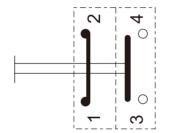


Туре	A	В	С
Conventional type		>50	>35
Knob	Ф22. 3	>50	>35
Mushroom type	Ψ 44. 3	>50	>42
Big mushroom type		>70	>70

Remarks:

- 1. Unit: mm
- 2. Both B and Crefer to min. size diagram

Fig. 2. Position 3

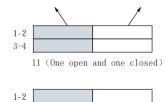


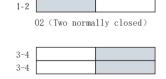
Note:

1-2 Normally closed contacts (NO) 3-4 Normally open contacts (NO)

Functional diagram of selection switch contacts

Fig. 1 Position 2





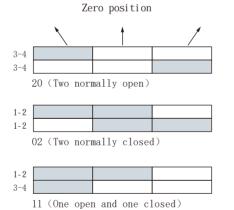
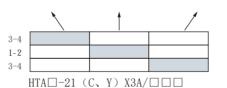
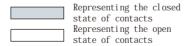


Fig. 3. Position 3



Note: Fig. 1 and Fig. 2 Taking the basic state - two contact groups as an example. Fig. 3 Taking the basic state - three contact roups as an example.

11. 12, 13, 14, 21, and 22 are contactnumbers



Indicator pattern (remark behind model when placing an order)

A1		Green side single white bar printing button	A5	-	HTack faced white arrow printing button	A9	*	HTack faced white rabbit printing button	A13		HTue faced white up and down arrows
A2		Green side douHTe white bar printing button	A6	0	Red faced white circle printing button	A10		On the white faced gray elevator	A14	47	HTue gray ↑↓
А3	START	Green side START printing button	A7	STOP	Red stop printing button	A11		Under the HTack and gray elevator	A15	11	HTue gray ↑↓
A4	(-)	White faced HTack arrow printing button	A8		HTack faced white turtle printing button	A12	\(\rightarrow\)	Yellow faced HTack bell	A16	٨	Yellow faced HTack light

HTA1M series buttons

Name	Pattern	Working status	Model	Color	Overall dimension		
Round button		Snap- Action	HTA1M-■/□	R	25.1		
tton		Self- locking	HTA1M-■S/□	G Y	11.6 48.1 Opening size φ 22.3		
High-position round knob		Snap- Action	HTA1M-■H/□	(W) B K	25.1		
si ti on knob	osition knob	Self- locking	HTA1M-■HS/□		17. 6 48.1 0pening size φ 22. 3		
Round knob with light			Snap- Action	HTA1M-■D/□■	R	25.1	
with light		Self- locking	HTA1M-■DS/□■ G	G	0pening size φ 22. 3		
High-position round knob		Snap- Action	HTA1M-■HD/□■	W	25.1		
sition knob		Self- locking	HTA1M-■HDS/□■		0pening size Φ 22. 3		
Mushroor		Snap- Action	HTA1M-■M/□	R	25.1		
Mushroom button			Self- locking	HTA1M-■MS/□	Y	Opening size Φ 22. 3	

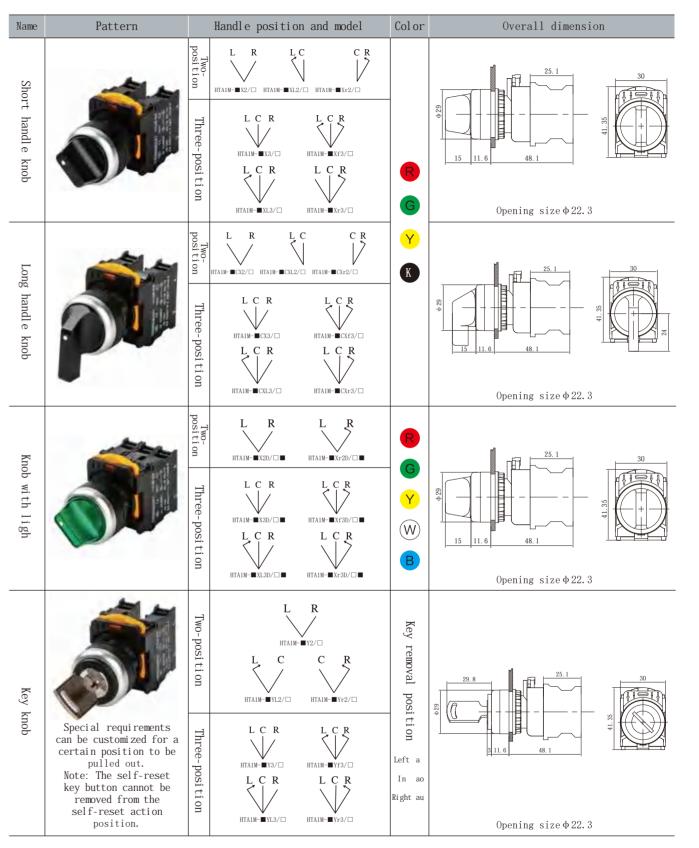
Statement

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.
- 3. The light sources with light buttons are all high brightness solid color LEDs.



Name	Pattern	Working status	Model	Color	Overall dimension
Mishroom button with light		Snap- Action	HTA1M-■MD/□■	R	25.1 30 90 90 90 90 90 90 90 90 90 9
button		Self- locking	HTA1M-■MDS/□■	Y W	Opening size φ 22.3
Emergency stop button		Press to lock, rotate clockwise to reset	HTA1M-■MXS/□	Opaque	19.5 30 30 48.1 Opening size Φ 22. 3
					Opening Size 422.5
Two position button		Snap- Action	НТА1М-■В	R	25. 1
					Opening size φ 22.3
Dual-position with lights	The state of the s	Snap- Acti on	HTA1M-■BD/□■	W B	25.1 30 15.2 48.1 Opening size Φ 22.3

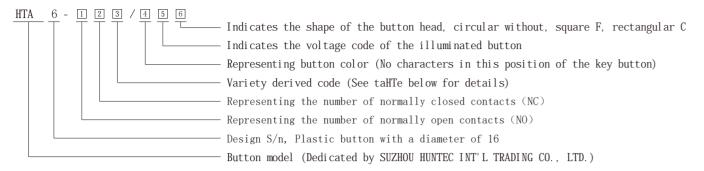
- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.
- 3. The light sources with light buttons are all high brightness solid color LEDs.



- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.
- 3. The light sources with light buttons are all high brightness solid color LEDs.



HTA6 series buttons



- 1 Representing the number of normally open contacts (NO)
- $\fbox{2}$ Representing the number of normally closed contacts (NC)
- 3 Variety derived code

Letter	Meani ng	Letter	Meani ng	Letter	Meani ng
	General button	M	Mushroom button	Y2	Two-gear key knob without reset
D	Button with light	X2	Two-gear short handle knob without reset	Y3	Three-gear key knob without reset
S	Self-locking button	Х3	Three-gear short handle knob without reset	MXS	Rotating reset mushroom button

4 Representing the button color

Red	Green	Yellow	White	HTue	HTack
R	G	Y	W	В	K

5 Voltage code of indicator lamp

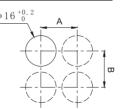
Code	21	22	23	26	28
Voltage (AC • DC)	6V	12V	24V	110V	220V

Main technical indicators

Rated capacity	AC-15 220∨/2A 110V/3A	DC-13 220V/0.27	A 110V/0.55A				
Agreed heating current	ith 5A	Operation travel	Around 3mm				
Rated insulation voltage	Ui 250V	Protection level	IP40, customizaHTe IP65				
Insulation resistance	≤100mΩ	Impact resistance	>10g				
Contact resistance	≪30mΩ	Vibration resistance	50Hz, amplitude approx. 1.2mm				
Electrical lifespan	50万次以上	Ambient temperature	-25°C~+55°C 45°85%RH (No condensation)				
Mechanical lifespan	100万次以上	Resistance to soldering heat	Not exceeding 3 s at 230 ℃				
Wi ri ng	Welding wire diameter: 2×0.8mm Max	x. copper wire area: 0.75mm²	Wiring inserts: 2.8×0.5mm				
Lamp module parameters	Bead type: Bidirectional LED Beads Lamp bead lifespan: approx. 40,000 hours Rated voltage (AC • DC): 6V, 12V, 24V, 110V, 220V						

Installation and wiring

Category	Ф16 Round	Ф16 Square	Ф16 Rectangle	Ф16 Small mushroom shaped	Ф16 Large mushroom shaped
A	≥18mm	≥18mm	≥18mm	≥24mm	≥30mm
В	≥18mm	≥18mm	≥24mm	≥24mm	≥30mm



One normally open and one normally closed	Wiring diagram	Two normally open and two normally closed	Wiring diagram
C10 NC1 NO1 AC/DC	r □ NC1	C10 NC1 C20 NC2 C20 NO2 AC/DC	Wiring terminals NC1 NC2

HTA Series buttons

HTA6 series buttons

Name	Pattern	Working status	Model	Color	Overall dimension		
Fla		Self- reset	НТА6-■/□				
t head		Self- l ocki ng	HTA6-■S/□				
Flat head round button		Self-reset with light	HTA6- ■ D/□■		9 9 18		
ton		Self-locking with light	HTA6-■DS/□■		Note: HTack is not used with lights		
Fl at		Self- reset	НТА6-■/□F	R			
t head so		Self- l ocki ng	HTA6-■S/□F	Y			
quare bu	Flat head square button	Self-reset with light	HTA6-■D/□■F	W	9.5 40 18		
ton		Self-locking with light	HTA6-■DS/□■F	B	Note: HTack is not used with lights		
Flat he		Self- reset	НТА6-■/□С				
Flat headed rectangular button		Self- l ocki ng	HTA6-■S/□C				
tangul ar		Self-reset with light	HTA6-■D/□■C		9.5 40 23.6		
button		Self-locking with light	HTA6-■DS/□■C		Note: HTack is not used with lights		
Emergency stop button	THE SECOND SECON	Press lock, key reset	HTA6-■MXS/□	R	22.5		

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in □ behind the diagonal line, and fill the voltage level with the light in ■.
- 3. The light sources with light buttons are all high brightness solid color LEDs.







Name	Pattern		Handle position and model			Color	Overall dimension
		Two-pc	Without lights	HTA6-■X2/□	L R		
Short hau		Two-position	With lights	HTA6-■X2D/□■			
Short handle knob		Three-position	Without lights	HTA6-■X3/□	L C R		15. 5 8
		osition	With lights	HTA6-■X3D/□■			Note: HTack is not used with lights
		Two-pc	Without lights	HTA6-■X2/□F	L R		
Short hau		Two-position	With lights	HTA6-■X2D/□■F		R	
ndle knob	Short handle knob	Three-1	Without lights	НТА6-■Х3/□F	L C R	K	15. 5 8 18
0		Three-position	With lights	HTA6-■X3D/□■F			Note: HTack is not used with lights
		Two-po	Without lights	НТА6-■Х2/□С	L R		
Short hai		Two-position	With lights	HTA6-■X2D/□■C			61
Short handle knob		Three-posi	Without lights	НТА6-■Х3/□С	L C R		15. 5 8 24. 8 45. 5
J		osi ti on	With lights	HTA6-■X3D/□■C			Note: HTack is not used with lights
Кеу	Key knob	Two-position		HTA6- ■ Y2	L R		
knob		Three-position		НТА6-■ҮЗ	L C R		9 39 18

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in \Box behind the diagonal line, and fill the voltage level with the light in \blacksquare .
- 3. The light sources with light buttons are all high brightness solid color LEDs.

Name	Pattern	Working status	Model	Color	Overall dimension	
Key knob		Two- position Lock	НТА6-■Ү2/F	L R		
		Three- position Lock	НТА6-■Ү3/F	L C R	9 39	
Key	Кеу	Two- position Lock	HTA6- ■ Y2/C	L R		
Key knob		Three- position Lock	НТА6-■Ү3/С	L C R	9 8 24.8	
		Self-reset	НТА6-■М/□			
Mushroom button		Self- locking	HTA6-■MS/□■		\$24	
button		Self-reset with light	HTA6-■MD/□		16 8	
		Self- button with light	HTA6-■MDS/□■	R	Note: HTack is not used with lights	
Emergency stop button		Press to ock, rotate to reset	HTA6-■MXS/□S		17.6 48	

- 1. Fill the number of normally open and normally closed contacts in before the diagonal line.
- 2. Fill the color in \square behind the diagonal line, and fill the voltage level with the light in \blacksquare .
- 3. The light sources with light buttons are all high brightness solid color LEDs.



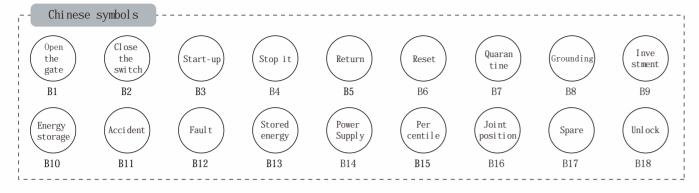
Accessories

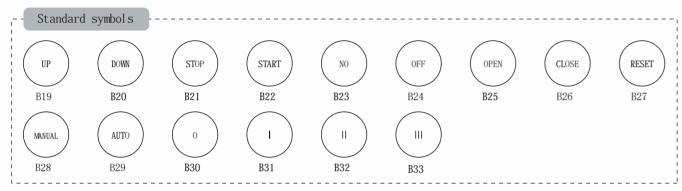
Sample image	Model and size	Purposes	Sample image	Model and size	Purposes
	FJ1	Installed on the signal lamp and button with a diameter of Φ 22, for symbol indication or	0	FJ9	Used for panels with a hole diameter of Φ 30 and producing ultra-thin button effects.
OFF	FJ2	textual explana- tion. Pull-out structure and replaceaHTe marking paper.		De rend dig average Statement to 0.8 FJ10	Installed on the head of the signal lamp and button with a diameter of Φ 22, enhancing waterproof effect, and with a protection level of IP67.
STOP	Ф 22.3 FJ3 D: Ф40 FJ4 D: Ф60 FJ5 D: Ф90	Used for the emergency stop button with a diameter of Φ 22, with warning function added .		\$20 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	The button and signal lamp with a diameter of Φ 22 can be installed on the panel with a diameter of Φ 25.
	34 19 08 FJ6	Installed on the head of Φ 22button, it can prevent	0	FJ12	The button and signal lamp with a diameter of Φ 22 can be installed on the panel with a diameter of Φ 30.
	36. 2 2 2 2 2 2 2 2 2 2 5 7 7 7 7 7 7 7 7 7	collision& mis-operation, and can be HTocked.		5 429.8 FJ13	Used for decorating reserved or excess holes.
	40.4 48 FJ7	Installed on the head of Φ 22mmshroom button, it can prevent collision and accidental movement.		######################################	Used to install \$\Phi 22 \text{indicator}\$ lamp, button and single hole conversion switch, which can improve the installation efficiency of workers.
	Ф43.5 Ф49.6 FJ8	Installed on the head of \$\Phi 22\$ button and mushroom button, it can prevent collision &-mis-operation, and can be HTocked.		19 9.7 17.6 FJ16	Installed on the head of \$\Phi12\$ metal button, it can prevent collision &-mis-operation, and can be HTocked.

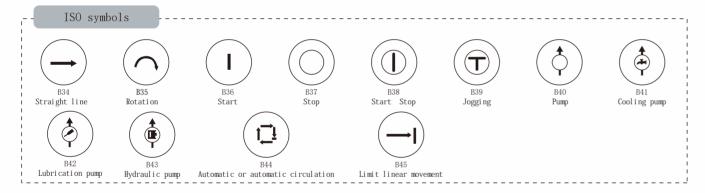
Sample image	Model and size	Purposes	Sample image	Model and size	Purposes
	FJ17-1 (2.8×0.5) FJ17-2 (4.8×0.5)	Used for HTA6 2.8 plug-in sheath	8	20 15 15 144 FJ25	Installed on Φ 16signal lamp and button for symbol indication or textual explanation. Pull out structure and replaceaHTe marking paper.
STOP	FJ18	Used for the emergency stop button with a diameter of Φ 16, with warning function added .	0	2.7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Installed on the neck of Φ 22 button, it plays a positioning role on the
	20 14.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Installed on the head of a square button with a diameter of Φ 16, it can prevent collision &-mis-operation, and can be	0	20.3 20.3 80.00 80.00 80.00 90.0	Installed on the neck of Φ 22 button, it plays a positioning role on the
	24.35 ES FJ19-2	Installed on the head of a rectangular button with a diameter of \$\Phi 16\$, it can prevent collision \$\&-\text{mis-operation}\$, and can be HTocked.	DS	Open DS Close the DS Close the DS Sail th	Installed on the signal lamp and button with a diameter of Φ22 for functional indication, the text adopts silk screen printing technology, which is clear and beautiful.
	φ 16 φ 11.5 φ 12.3 FJ20	Installed at the neck of Φ 12signal lamp, enhancing waterproof effect, with a protection level of IP67.		4-R3.4 FJ31	Installed at the bottom of Φ 22 button for dust-proof decoration.
	52.7 52.7 22 FJ21	Independently installed on the panel, it serves as an indicator for the functions, positions, and other aspects of various components.		FJ35	Installed on the head of \$\Phi 16\$ square signal lamp and button, ensuring that the button is flush with the panel.
	72.8 130 FJ22	Installed on the head of the panel size 48 × 48 conversion switch, it can prevent collision &misoperation, and can be HTocked.		ф16.2 ————————————————————————————————————	Installed on the head of a rectangular signal lamp and button with a diameter of Φ 16, achieving the effect of the button being flush with the panel.



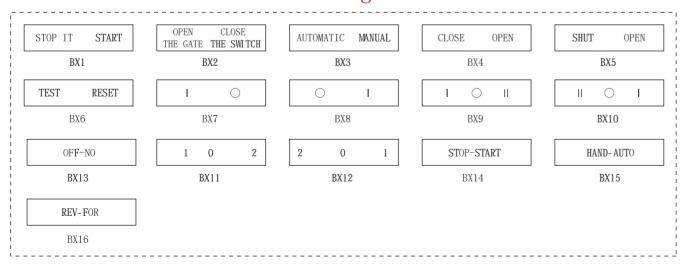
Button and signal lamp printing symbols







Knob Label or Label Frame Printing



Company Qualification:









SUZHOU HUNTEC INT'L TRADING CO., LTD.

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