

ZHEJIANG HANSHANG ELECTRIC CO., LTD.

# PRODUCT GUIDE

**Button Switch | Indicator Light | Warning Light** 



Website: www.hs-switch.com

Email: business@hungsing.cn



Website: www.hs-switch.com

Email: business@hungsing.cn



# About HungSing

Zhejiang Hanshang Electric Co., Ltd. is a production-oriented enterprise specializing in the production and technology development of button switch and supporting products. Products are widely used in sports equipment, biopharmaceutical, precision machinery testing, ship control system, automatic machine tools, textile machinery, printing and packaging machinery, food processing machinery, plastic machinery and other industries.

Over the years, the company has focused on the production of metal button switches, plastic button switches, signal button lights and other products as one of the manufacturers, for the world famous brand OEM production of various models of button switches, products with the world's advanced technology, but adhere to the domestic product sales with high quality and low price, the company's production of buttons, signal lamp series has been loved and welcomed by the majority of customers.

The company has a sound management system. Committed to quality, brand, service, price for the purpose of enterprise and development, to win the trust and praise of customers around the world, always looking forward to become your partner, create a better future.





Intimate custom and meticulous ser ice

Email: business@hungsing.cn

Fine intelligence makes the quality more outstanding



# **QUALIFICATIONS**

Authoritative certification, excellent quality;

Condensed Han Shang people's hard work and wisdom;

It also sets off the Hanshang people's pursuit of quality first, and the impression of honor accumulation and growth again and again; It is also a spur to the future...

































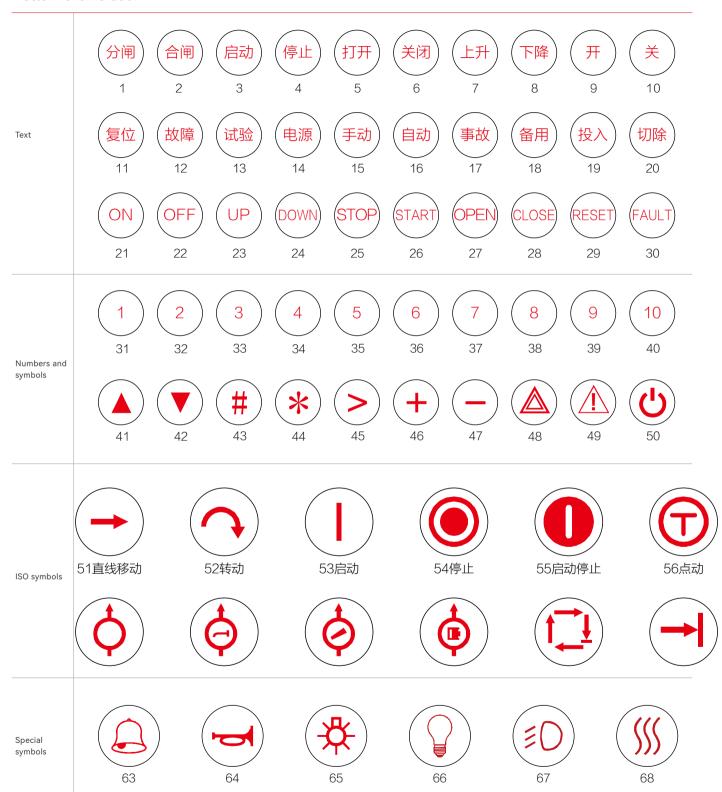








#### Pattern enumeration



Note: The above icon symbols need to be customized.





### **X SERIES**

X Series destruction-resistant waterproof metal signal indicator

Waterproof IP65/IP67, can be used directly in outdoor scenes. Metal shell to prevent switch failure caused by various impacts during use. The luminous surface can be customized with various patterns, so that the sig-nal indication is clear and unmistakable.



shock-resistant



Waterproof and dustproof



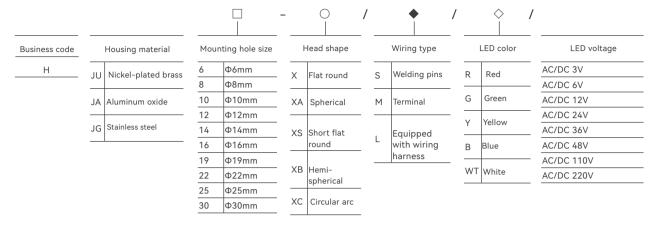
Safe and practical



Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

#### Summary

·	
Mounting hole size	Ф6-Ф30mm
Voltage level	220V and below
le Rated current le	3~48V 约 15mA; 110~220V 约 2mA 3~48V about 15mA; 110~220V about 2mA
LED type	wo way LED beads (AC and DC universal)
LED color	RYGBWThree or two colors can be customized
Housing material	tainless steel / Nickel-plated brass / Aluminum (oxidized)
Protection level	IP65/IP67 IK10

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.

#### Performance characteristics

Product specifications		HJ □□ X- ◆○					
Bottom configuration		(2.8×0.5mm) Wiring pins (2.8×0.5mm)					
Dielectric str	ength	1100VAC					
Ambient tem	perature	-20°C ~ +55°C					
Panel thickne	ess	1~8mm					
Nut torque		5~14Nm					
Protection le	vel	IP65/IP67 IK10					
	LED shade	Polycarbonate					
Material	Housing	Stainless steel / Nickel-plated brass / Aluminum (oxidized)					
Material	Pedestal	РВТ					
	RoHS	Customizable					
	LED type	Two way LED beads (AC and DC universal)					
LED	Ue Rated voltage Ue	3V / 6V / 12V / 24V /36V / 48V /110V / 220V					
specification	LED color	RYGBW Three or two colors can be customized					
	LED life	40,000 hours					

HAN SHANG 02

Email: business@hungsing.cn

Website: www.hs-switch.com











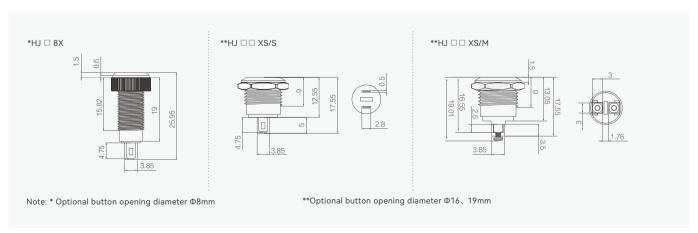






















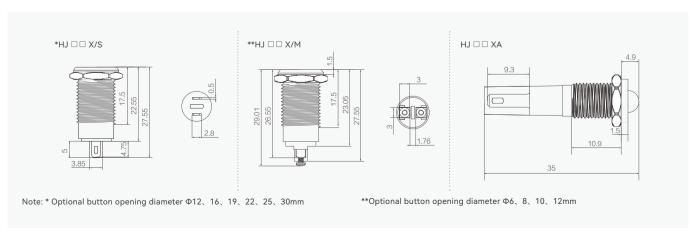




























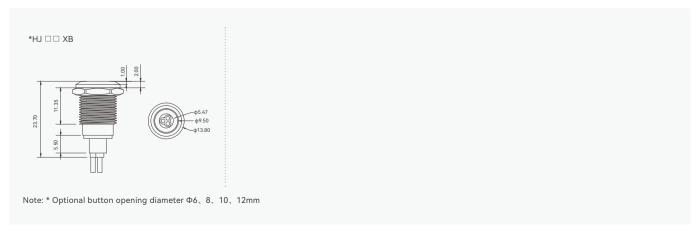
















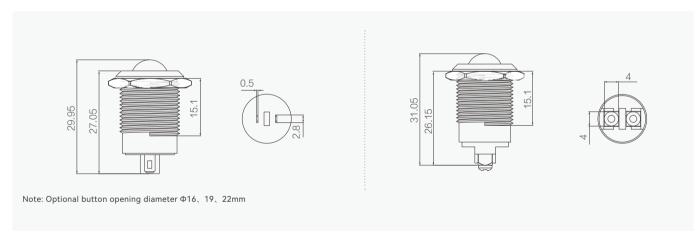














HAN SHANG 06





# **A SERIES**

#### A Series metal push button switch

Waterproof IP65/IP67, can be used directly in outdoor scenes.

Metal shell to prevent switch failure caused by various impacts during use.

The luminous surface can be customized with various patterns, so that the signal indication is clear and unmistakable.



shock-resistant



Waterproof and dustproof



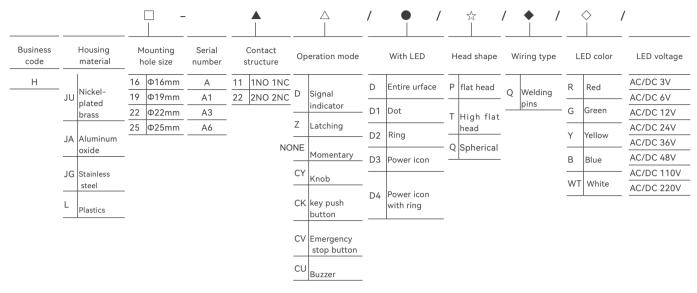
Safe and practical



Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

Customize special patterns, please communicate with sales staff to confirm. aluminum oxide (color), Please specify color when ordering, HJ  $\Box$  16A default housing Nickel-plated brass, the rest default housing stainless steel.

#### Summary

Mounting hole size	Φ16、19、22、25mm
Switch rating	ith 3A/250V
Switch combinations	1NO 1NC/2NO 2NC
Operation mode	Momentary / Latching
Head shape	Flat head / High flat head/Spherical
Housing material	Stainless steel / Aluminum (oxidized) / Nickel-plated brass
With LED	Entire urface / Dot / Ring /power indicator light / Power icon with ring
Protection level	IP65/IP67 IK09
le Rated current le	5~48V 约 15mA; 110~250V 约 2mA 5~48V about 15mA; 110~250V about 2mA
Voltage reduction method	Built-in resistance
LED type	Using AC and DC universal two way LED lamp beads, the terminal has no positive and negative poles to distinguish the built-in protection resistance of the lamp beads, and does not need to be connected.
Circuit	a° R b

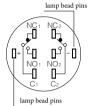
Email: business@hungsing.cn



#### Switch structure description

Туре	Schematic diagram	Symbol
С	NO C	NO C

### Pin description



Up to two sets of switches can be configured.
C, NO, NC and C, NO, NC are a set of switches; C foot is common foot, NO foot is normally open foot, NC foot is normally closed foot; +, - pins are lamp bead pins, and conventional lamp bead configuration has no positive and negative polar distinction. The lamp beads are relatively independent of the switch, and the lamp bead status can be controlled by the switch or peripheral circuit.Lamp bead terminals

#### Performance characteristics

Product specifications		HJ □□ A- □■ / □ /Q	Mechanical life	е	More than 200,000 times		
Dielectric	strength	1500VAC	Electrical life		More than 100,000 times		
Insulation	resistance	≥ 1000MΩ	Panel thickness		1~10mm		
Contact re	esistance	≤ 50mΩ	Nut torque		5~14Nm		
Switch sp	ecifications	ith 3A/250V	Operating pressure		3N~5N		
Bottom configuration		(2.8×9mm) Wiring pins (2.8×9mm)	Operation travel		About 3.1mm		
Head shap	pe	High flat head/flat head	Protection level		IP65/IP67 IK09		
Ambient te	emperature	- 20°C ~+55°C					
	Contact	Silver contact / Customizable			Two way LED beads		
	Button	Stainless steel / Chrome plated brass / Aluminum (oxidized)		LED type	(AC and DC universal)		
Material	Housing	Stainless steel / Chrome plated brass / Aluminum (oxidized	LED parameter	Ue Rated voltage Ue	3V / 6V / 12V / 24V /36V / 48V /110V / 220V		
	Pedestal	PBT		LED color	R Y G B W		
RoHS		Customizable		LED life	40,000 hours		

Website: www.hs-switch.com Email: business@hungsing.cn

















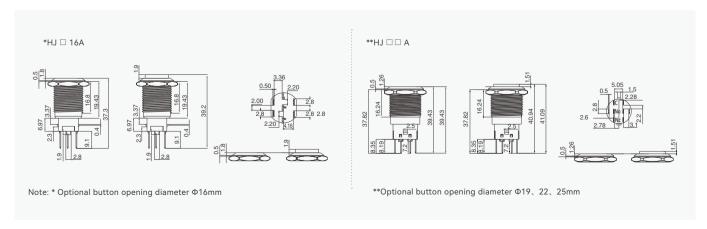




























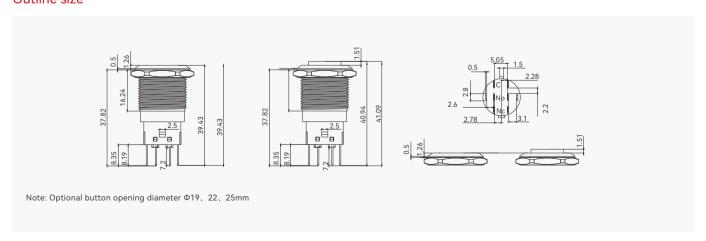




























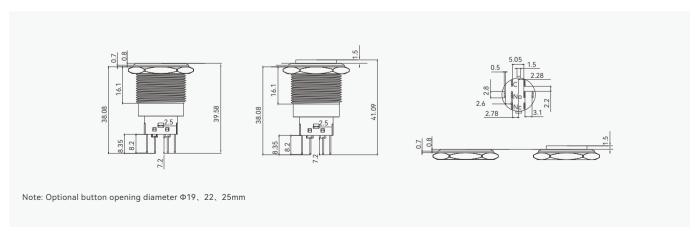
















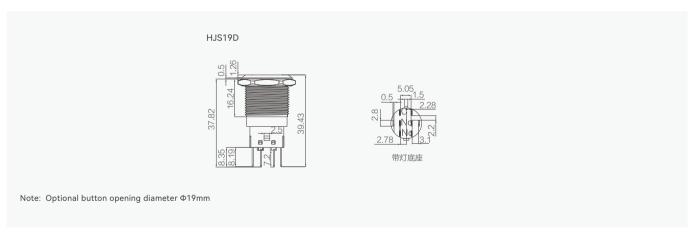




















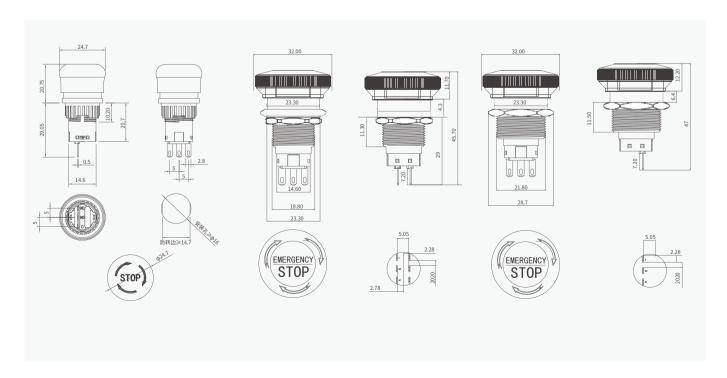








 $\label{thm:more Product Information Please contact us for details!}$ 





### A7 new Metal push button switch



Product model

Waterproof class

Volume

Electrical performance

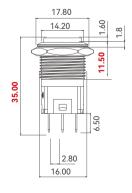
Overall dimension

### **A2 Series**

Waterproof class ≤IP65

Compared with the new model, the volume is larger

the length of momentary/latching model is the same

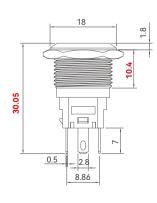


### **A7 Series**

Waterproof rating **IP65/IP67**, suitable for more environments

housing length 15mm, fully utilize the space

the length of momentary/latching model is the same







# **A2 SERIES**

#### A2 series push button switch

Metal shell to prevent switch failure caused by various impacts during use. The button surface can be customized with various patterns to distinguish the switch function.

The slightly shorter volume allows for a smaller installation space.



shock-resistant



Waterproof and dustproof



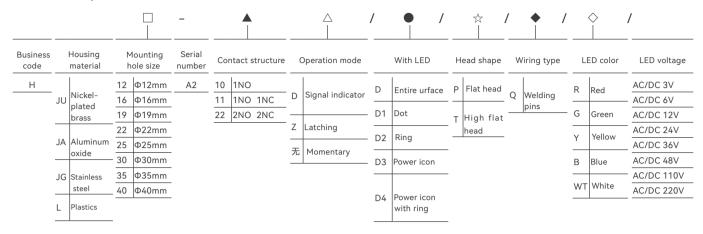
Safe and practical



Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols. Customize special patterns, please communicate with sales staff to confirm.

Housing material: Chrome plated brass, brass nickel plated, stainless steel, aluminum oxidation (color), please indicate the shell material when placing an order,  $HJ \square 16A$  defaults to Chrome plated brass shell, and the rest defaults to stainless steel shell.

#### Summary

Mounting hole size	Φ12、16、19、22、25、30、35、40mm
Switch rating	12mm current ith 2A, other ith 5A
Switch combinations	1NO 1NC/2NO 2NC
Operation mode	Momentary/Latching
Head shape	Flat head / High flat head
Housing material	Stainless steel / Aluminum (oxidized)/ Nickel-plated brass
With LED	Ring /power indicator light
Protection level	IP65 IK09
LED type	Two way LED beads (AC and DC universal Three or two colors can be customized
le Rated current le	5~48V about 15mA; 110~250V about 2mA
Voltage reduction method	Built-in resistance
Beads equivalent	Using AC and DC universal LED lamp beads, the terminal has no positive and negative poles to distinguish the built-in protection resistance of the lamp beads, and does not need to be connected.
Circuit	a° R b



#### Switch structure description

Туре	Schematic diagram	Symbol
С	NO C	NO — C

#### Pin description

Up to two sets of switches can be configured.

 $\dot{C}$ , NO , NC and  $\dot{C}$  , NO , NC are a set of switches; C foot is common foot, NO foot is normally open foot, NC foot is normally closed foot; +, - pins are lamp bead pins, and conventional lamp bead configuration has no positive and negative polar distinction. The lamp beads are relatively independent of the switch, and the lamp bead status can be controlled by the switch or peripheral circuit.Lamp bead terminals

#### Performance characteristics

		1					
Product specifications		HJ □□ A2- □■ / □ /Q	Mechanical life		More than 200,000 times		
Dielectric strength		1500VAC	Electrical life		More than 100,000 times		
Insulation	resistance	≥ 1000MΩ	Panel thickness		1~10mm		
Contact re	esistance	≤ 50mΩ	Nut torque		5~14Nm		
Switch sp	ecifications	ith 3A/250V	Operating pressure		3N~5N		
Bottom configuration		(2.8×6.5mm) Wiring pins (2.8×6.5mm)	Operation travel		About 3.1mm		
Head shape		High flat head/flat head	Protection level		IP65 IK09		
Ambient temperature		-20°C ~+55°C					
	Contact	Complex silver					
	Button	Stainless steel / Aluminum (Oxidized)		LED type	Two way LED beads (AC and DC universal)		
Material	Housing	Stainless steel / Nickel-plated brass / Aluminum (oxidized)	LED parameter	Rated voltage Ue	3V / 6V / 12V / 24V /36V / 48V /110V / 220V		
	Pedestal	PA		LED color	R Y G B W		
RoHS		Customizable		LED life	40,000 hours		

Email: business@hungsing.cn



















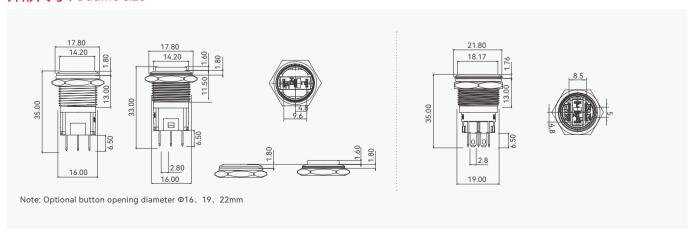








#### 外形尺寸 /Outline size











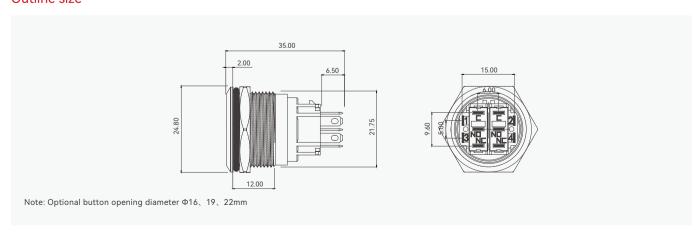








More Product InformationPlease contact us for details!







# **56A SERIES**

#### 56A series push button switch

The larger key surface can meet the requirements of various vending ma-chines and number machines.

The button surface can be customized with various patterns to distinguish the switch function.

The metal casing gives the appearance of the device more texture. Waterproof IP65/IP67, can be used directly in outdoor scenes.





Waterproof and dustproof



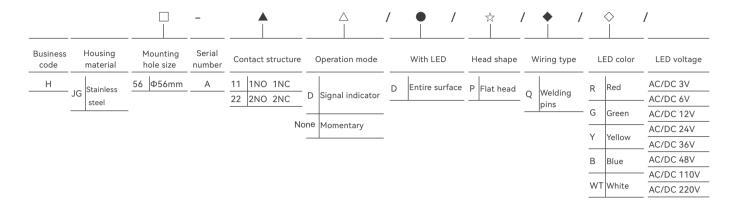
Safe and practical



Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols. Customize special patterns, please communicate with sales staff to confirm.

Housing material: Chrome plated brass, brass nickel plated, stainless steel, aluminum oxidation (color), please indicate the shell material when placing an order,

 $HJ \square$  16A defaults to Chrome plated brass shell, and the rest defaults to stainless steel Housing.

#### Summary

Mounting hole size	Ф56mm			
Switch rating	ith 3A/250V			
Switch combinations	1NO 1NC/2NO 2NC			
Operation mode Momentary/Latching				
Head shape	Flat head			
Housing material	Stainless steel			
With LED	Entire surface			
Protection level	IP65 IK09			
LED type	Two way LED beads (AC and DC universal)			
le Rated current le	5~48V 约 90mA;110~250V 约 15mA 5~48V about 90mA;110~250V about 15mA			
Voltage reduction method	Built-in resistance			
Beads equivalent	Using AC and DC universal LED lamp beads, the terminal has no positive and negative poles to distinguish the built-in protection resistance of the lamp beads, and does not need to be connected.			
	a° R b			

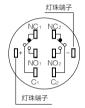
Email: business@hungsing.cn



#### Switch structure description

Туре	Schematic diagram	Symbol
С	NO C	NO C

#### Pin description



Up to two sets of switches can be configured.

C, NO , NC and C , NO , NC are a set of switches; C foot is common foot, NO foot is normally open foot, NC foot is normally closed foot; +, - pins are lamp bead pins, and conventional lamp bead configuration has no positive and negative polar distinction. The lamp beads are relatively independent of the switch, and the lamp bead status can be controlled by the switch or peripheral circuit.Lamp bead terminals

#### Performance characteristics

Product specifications		HJ □□ A- □■ / □ /Q	Mechanical life		More than 200,000 times
Dielectric strength		1500VAC	Electrical life		More than 100,000 times
Insulation	resistance	≥ 1000MΩ	Panel thickness		1~10mm
Contact re	esistance	≤ 50mΩ	Nut torque		5~14Nm
Switch sp	ecifications	ith 3A/250V	Operating pressure		3N~5N
Bottom configuration		(2.8×9mm) Wiring pins (2.8×9mm)	Operation travel		Approx 3.1mm
Head sha	pe	Flat head	Protection level		IP65 IK09
Ambient temperature − 20°C ~+55°C		- 20°C ~+55°C			
	Contact	Sterling contact			Two way LED beads (AC and DC
	Button	PC		LED type	universal)
Material	Housing	Stainless steel	LED parameter	Rated voltage Ue	3V / 6V / 12V / 24V /36V / 48V /110V / 220V
	Pedestal	PBT		LED color	R Y G B W
RoHS		Customizable		LED life	40,000 hours



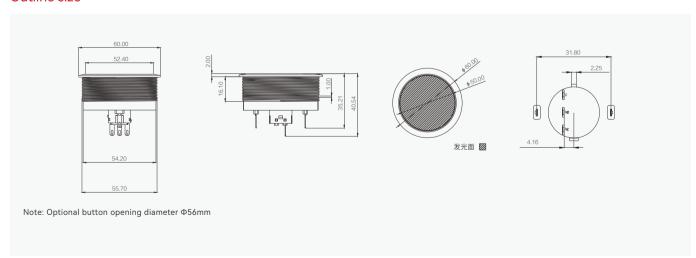








Email: business@hungsing.cn







# **B SERIES**

#### B series push button switch

Metal shell to prevent switch failure caused by various impacts during use. The button surface can be customized with various patterns to distinguish the switch function.

The shorter volume allows for a smaller installation space.



shock-resistant



Waterproof and dustproof



Safe and practical



Quality assurance



#### Model description

									☆	_	_	<u> </u>	
Business code Housing material	Mour	nting hole size	Serial number	Со	ntact structure	Operation	mode	_	Head shap	е	_\	Viring t	уре
H JU Nickel-plated brass  JA Aluminum oxide  JG Stainless steel	16 19 22	Φ16mm Φ19mm Φ22mm	В	10	1NO	No letters re Momen		P	Spherica Flat hea High flat	d —	_	Welding Termina	

Customize special patterns, please communicate with sales staff to confirm.

Shell material: Chrome plated brass, brass nickel plated, stainless steel, aluminum oxidation (color), please indicate the shell material when placing an order, the default is Chrome plated brass shell.

#### Summary

Mounting hole size	Ф16mm、19mm、22mm	
Switch rating	ith 2A/36V	
Switch combinations	1NO	
Operation mode	Momentary	
Head shape	Spherical/Flat head/ High flat head	
Housing material	Stainless steel / Brass (chrome or gold plated) / Aluminum (oxidized)	
Protection level	HJ □ 16B(IP65) 、 HJ □ 19B、HJ □ 22B(IP65/IP67) IK09	
housing color	R Y G B W BL	
button color	R Y G B W BL	

#### Performance characteristics

Product specifications		HJ □ 16B- △ / △ / △	Ambient temperature	- 20°C ~+55°C	
Head shape		Spherical/flat round/high flat round	Mechanical life	More than 1,000,000 times	
Bottom configuration		Binding posts/welding pins	Electrical life	More than 200,000 times	
Switch specifications		ith 2A/36VDC	Panel thickness	1~6mm	
Contact resistance		≤ 50mΩ	Nut torque	5~14Nm	
Insulation resistance		≥ 1000MΩ	Operating pressure	About 4N	
Dielectric strength		1500VAC	Operation travel	About 1.5mm	
RoHS		Customizable			
Pedestal		PBT			
Material	Contact	Silver alloy			
	Button	Stainless steel / Aluminum (oxidized)			
	Housing	Stainless steel / Nickel-plated brass / Aluminum (oxidized)			

Email: business@hungsing.cn













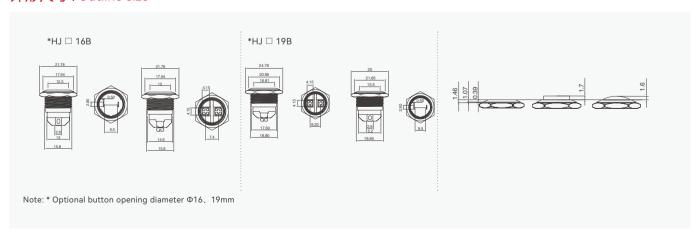








#### 外形尺寸 /Outline size



27 HAN SHANG

Website: www.hs-switch.com













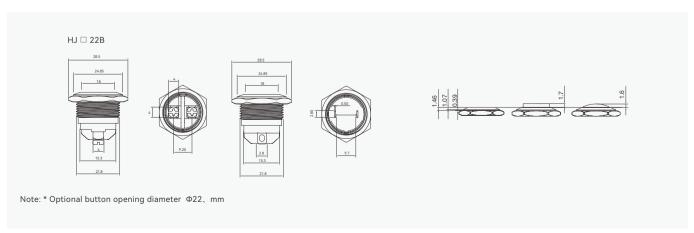








#### Outline size



Email: business@hungsing.cn



#### Metal button



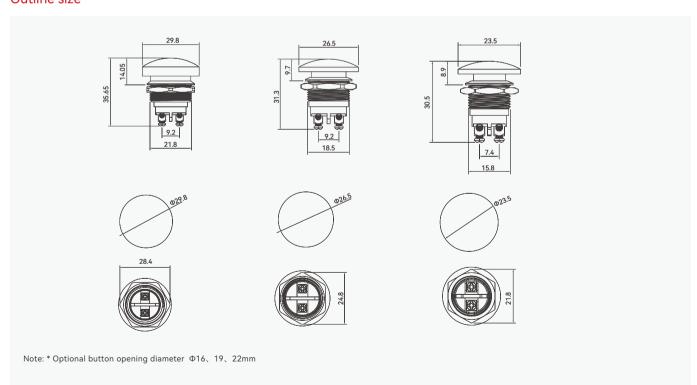






For more product information, please contact our company!

#### Outline size



29 HAN SHANG

Website: www.hs-switch.com





# 12C SERIES

#### 12C series push button switch

Waterproof IP65/IP67, can be used directly in outdoor scenes.

The button surface can be customized with various patterns to distinguish the switch function.

The short volume can meet the narrower installation space.



shock-resistant



Waterproof and dustproof



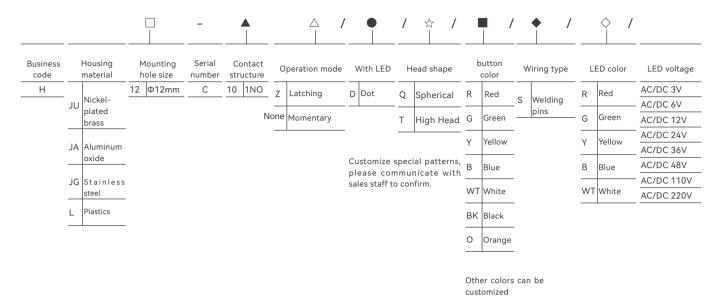
Safe and practical



Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

Customize special patterns, please communicate with sales staff to confirm.

Shell material: Chrome plated brass, brass nickel plated, stainless steel, aluminum oxidation (color), please indicate the shell material when placing an order, the default is Chrome plated brass shell.

#### Summary

Mounting hole size	Ф12mm
Switch rating	ith 2A/36V
Switch combinations	1NO
Operation mode	Momentary / Latching
With LED	LED / Single point
Protection level	IP65 / IP67 IK08
Head color	R Y G B W BL
Housing material	tainless steel / Aluminum (oxidized) / Chrome plated brass
Head material	PC / Stainless steel / Chrome plated brass
Operating ambient temperature	-25° C~+55° C (no freezing) must be air circulation around the lighting switch body
Working environment humidity	5~85%RH (non-condensing)
Contact resistance	≤ 50mΩ
Insulation resistance	≥ 1000MΩ
Maximum withstand voltage	Its, 50 Hz AC, 5 seconds
Vibration resistance	ore than 10g
Impact resistance	Hz, amplitude about 1.2mm
Soldering temperature	320° C (or 30 watts of soldering iron) no more than 2 seconds
-	<del>-</del>



## Switch structure description

Туре	Schematic diagram	Symbol
С		

Description: Double break slow moving contact switch with two terminals.

#### Performance characteristics

Product specific	cations HJ $\square$ 12C- $\triangle$ / $\triangle$ / $\triangle$		/ A	Mechanic	al life	More than 1,000,000 times
Head shape	Head shape Spherical/high head		d Electrical life		life	More than 200,000 times
Bottom configuration Wiring pins (3.7×2.8		8mm)	Panel thickness		1~5mm	
Switch specifica	witch specifications ith 2A/36V			Nut torque		5~14Nm
Contact resistar	Contact resistance $\leq 50 \text{m}\Omega$			Operating pressure		About 4N
Insulation resist	ance	≥ 1000MΩ		Operatio	n travel	About 1.5mm
Dielectric stre	ngth	1500VAC			Pedestal	PA
Ambient temperature		-20°C ~+55°C	C~+55°C		Housing	Stainless steel / brass (chrome plated)
Protection level		IP65/IP67 IK08			Button	PC / Stainless steel / Chrome plated brass
RoHS	RoHS Customizable			Contact point		Gold-plated contact / Silver alloy contact
	Built-in lamp b	eads				
	LED color		R Y G B W			
LED specification	le Rated current	: le	3~48V about 15mA 110~220V about 2mA			
-1-00000.011	Ue Rated voltage Ue		3V/6V/12V/24V/36V/ 48V/110V/220V			
	LED life		40,000 hours			

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.

















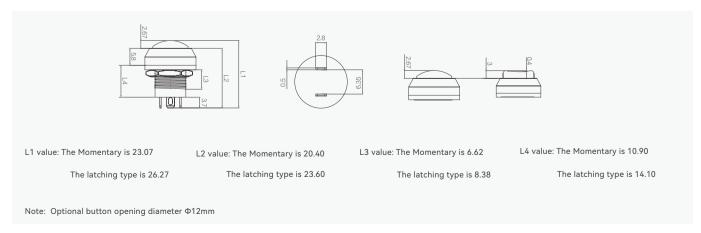








For more product information, please contact our company!







## 16/19/22C SERIES

#### 16C/19C/22C series push button switch

Waterproof IP65/IP67, can be used directly in outdoor scenes.

The button surface can be customized with various patterns to distinguish the switch function.

The small volume can meet the more narrow installation space.



shock-resistant



Waterproof and dustproof



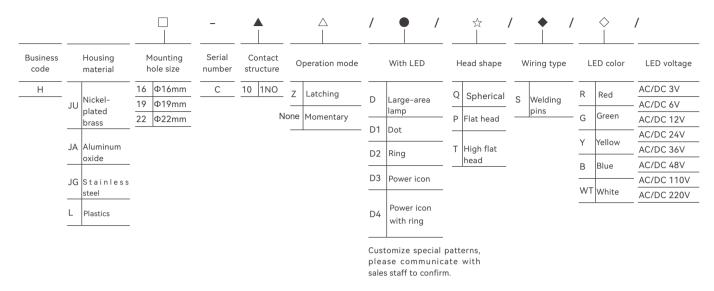
Safe and practical



Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols. Customize special patterns, please communicate with sales staff to confirm.

Shell material: Chrome plated brass, brass nickel plating, stainless steel, aluminum oxidation (color), please indicate the shell material when placing an order, The 16C defaults to a Chrome plated brass housing and the 19C/22C defaults to a stainless steel case.

#### Summary

•	
Mounting hole size	Ф16mm 19mm 22mm
Switch rating	ith 2A/36V
Switch combinations	1NO
Operation mode	Momentary/latching
With LED	LED RY GBW
Protection level	IP65/IP67 IK10
Head color	R Y G B W BL
Housing material	brass chrome plating, stainless steel, aluminum oxidation (color),
Head material	PC
Operating ambient temperature	$-25^{\circ}\text{C}\!\!\!\!\!\!^{\sim}\!$
Working environment humidity	45~85%RH (non-condensing)
Contact resistance	≤ 50mΩ
Insulation resistance	≥ 1000MΩ
Maximum withstand voltage	1500 volts, 50 Hz AC, 5 seconds
Vibration resistance	More than 10g
Impact resistance	50 Hz, amplitude about 1.2mm
Soldering heat	At 320° C (or 30 watts of soldering iron) no more than 2 seconds



## Switch structure description

Туре	Schematic diagram	Symbol
С		

Description: Double break slow moving contact switch with two terminals.

### Performance characteristics

Product specific	fications HJ $\square$ - $\square$ / $\triangle$ / $\bullet$ /		/☆	Mechanic	al life	More than 1,000,000 times
Head shape	ead shape Spherical/High flat		head	Electrical life		More than 200,000 times
Bottom configuration Wiring pins (2×6mm		m) Panel thickness		kness	1~5mm	
Switch specifica	Switch specifications ith 2A/36V			Nut torque		5~14Nm
Contact resista	nce	≤ 50mΩ		Operating pressure		About 4N
Insulation resist	ance	≥ 1000MΩ		Operatio	n travel	About 1.5mm
Dielectric strer	ngth 1500VAC				Pedestal	PA
Ambient temperature		-20°C ~+55°C		Material	Housing	Stainless steel/Brass (chrome plated) / PC
Protection level		IP65/IP67 IK08			Button	PC / Stainless steel (chrome plated) / Stainless steel
RoHS		Customizable		Contact point		Gold-plated contact
	Built-in lamp b	eads				
	LED color		R Y G B W			
LED specification	le Rated current le		3~48V about 15mA 110~220V about 2mA			
	Ue Rated voltage Ue		3V/6V/12V/24V/36V/48V/110V/220V			
	LED life		40,000 hours			

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.

















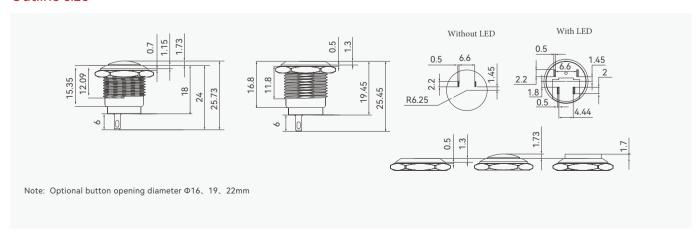
























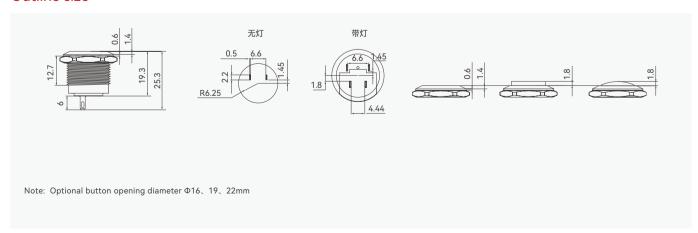








#### Outline size













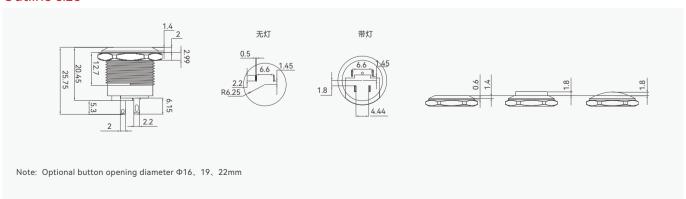
















## 8/10E SERIES

#### 8/10E series push button switch

Metal shell to prevent switch failure caused by various impacts during use.

The ultra-small volume can meet the smaller installation space.





Waterproof and dustproof





Quality assurance



## Summary

Mounting hole size	Ф8、Ф10mm
Switch rating	ith 2A/36V
Switch combinations	1NO
Operation mode	Momentary
Protection level	IP65, IK08
Housing material	Stainless steel/brass nickel plated
Operating ambient temperature	-25° C~+55° C (no freezing) must be air circulation around the lighting switch body
Working environment humidity	45~85%RH (non-condensing)
Contact resistance	≤ 50mΩ
Insulation resistance	≥ 1000MΩ
Maximum withstand voltage	1500 volts, 50 Hz AC, 5 seconds
Vibration resistance	50 Hz, amplitude about 1.2mm
Impact resistance	More than 10g
Soldering heat	At 320° C (or 30 watts of soldering iron) no more than 2 seconds

## Switch structure description

Туре	Schematic diagram	Symbol
С		

 $\label{thm:contact} \mbox{Description: Double break slow moving contact switch with two terminals.}$ 

#### Performance characteristics

Product specifications	HJ □ 8E	Mechanical life		100 万次以上 More than 1,000,000 times
Head shape	Spherical	Electrical life		20 万次以上 More than 200,000 times
Bottom configuration	Wiring pins (1.5×5mm)	anel thickness		1~5mm
Switch specifications	ith 2A/36V	Nut torque		5~14mm
Contact resistance	≤ 50mΩ	Operating pres	sure	约 4N About 4N
Insulation resistance	≥ 1000MΩ	Operation trave	el	约 1.5mm About 1.5mm
Dielectric strength	1500VAC		Pedestal	PA
Ambient temperature	-20°C ~+55°C	Material	housing	Stainless steel/brass (nickel plated)
rotection level	IP65 IK08		Button	Stainless steel
RoHS	Customizable	Contact		Silver-plated contact



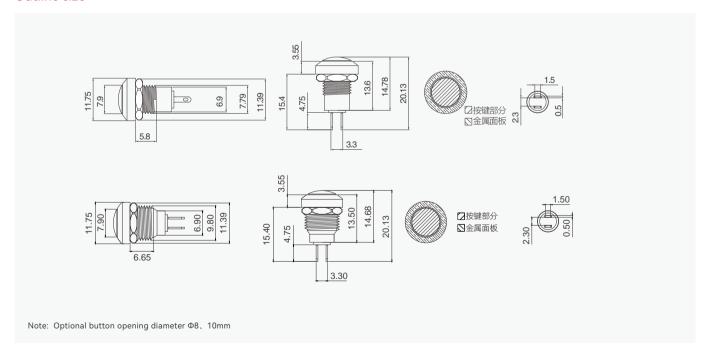








For more product information, please contact our company!







## 12E SERIES

#### 12E series push button switch

Waterproof IP65/IP67, can be used directly in outdoor scenes.

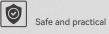
The button surface can be customized with various patterns to distinguish the switch function.

The small volume can meet the more narrow installation space.





Waterproof and dustproof

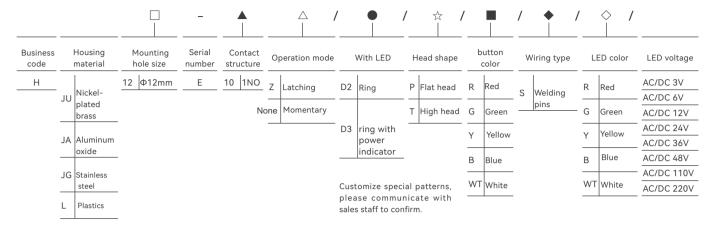




Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

Customize special patterns, please communicate with sales staff to confirm.

Shell material: brass chrome plating, brass nickel plating, stainless steel, aluminum oxidation (color), please indicate the shell material when placing an order, The default is a brass chrome housing.

#### Summary

Ф12mm
ith 2A/36V
1NO
Momentary/Latching
Ring /ring with power indicator light/Power indicator light
IP65/IP67 IK08
R Y G B W BL
Brass chrome plating, stainless steel, aluminum oxidation
PC
-25° C~+55° C (no freezing) must be air circulation around the Dot switch body
45~85%RH (non-condensing)
≤ 50mΩ
≥ 1000MΩ
1500 volts, 50 Hz AC, 5 seconds
50 Hz, amplitude about 1.2mm
More than 10g
At 320° C (or 30 watts of soldering iron) no more than 2 seconds



### Switch structure description

Туре	Schematic diagram	Symbol
С		

 $\label{eq:Description:Double break slow moving contact switch with two terminals. \\$ 

#### Performance characteristics

Product specification	uct specifications HJ $\square$ 12E- $\triangle$ / $\bullet$ / $\diamondsuit$		₹/♦	Mechani	cal life	More than 1,000,000 times
Head shape Flat round/high Flat ro		pund	Electrical life		More than 200,000 times	
Bottom configuration Wiring pins (2.8×3.8mm		m) Panel thickness		ickness	1~5mm	
Switch specifications ith 2A/36V			Nut torque		5~14Nm	
Contact resistance $\leq 50 \text{m}\Omega$			Operating pressure		About 4N	
Insulation resistance		≥ 1000MΩ		Operatio	n travel	About 1.5mm
Dielectric strength	1500VAC				Pedestal	PA
Ambient temperature		-25°C ~+55°C		Material	Housing	Stainless steel / brass (chrome plated) / aluminum (oxidized)
Protection level		IP65/IP67 IK08			Button	PC/Stainless stee
RoHS		Customizable		Contact point		Gold-plated contact / Silver alloy
	Built-in I	amp beads				
	LED color		RYGBW			
LED specification	le Rated	current le	3~48V about 15mA 110~220V about 2mA			
ZZD specification	Ue Rated voltage Ue		3V/6V/12V/24V/36V/48V/110V/220V			
	LED life	LED life 40,000 hours				

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.

Website: www.hs-switch.com Email: business@hungsing.cn

















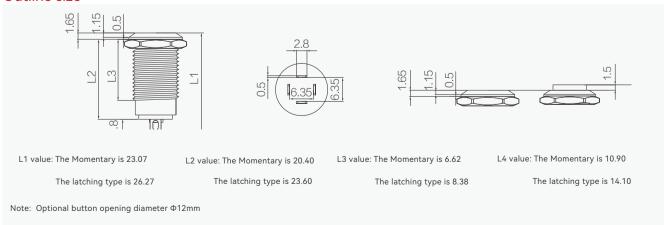








For more product information, please contact our company!







## **16E SERIES**

#### 16E series push button switch

Waterproof IP65/IP67, can be used directly in outdoor scenes.

The button surface can be customized with various patterns to distinguish the switch function.

The small volume can meet the more narrow installation space.

Metal shell to prevent switch failure caused by various impacts during use.





Waterproof and dustproof



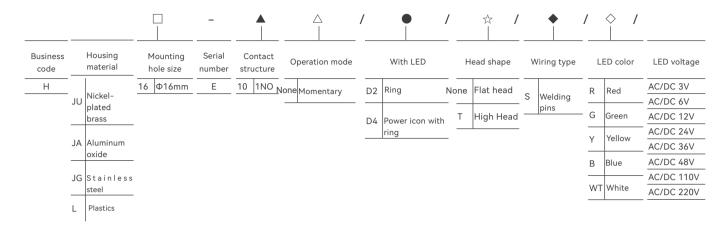
Safe and practical



Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols. Customize special patterns, please communicate with sales staff to confirm.

Shell material: brass chrome plating, brass nickel plating, stainless steel, aluminum oxidation (color), please indicate the shell material when placing an order, The default is a brass chrome housing.

#### Summary

Mounting hole size	Ф16mm	With LED	Ring /Ring power supply Pattern light		
Mounting hole size	ith 2A/36V	Protection level			
Mounting hole size	1NO	Protection level	Stainless steel / brass (chrome plated) / aluminum (oxidized)		
Operation mode	Momentary	Housing material	IP65/IP67 Customizable IP65/IP67		

### Switch structure description

Туре	Schematic diagram	Symbol
X		

Description: Double break slow moving contact switch with two terminals.

#### Performance characteristics

Product specif	ications	HJ □ 16- △ / △ /	/ △	Mechanical	life	More than 1,000,000 times
Head shape	Head shape Flat round/high Fla		at round	Electrical life		More than 200,000 times
Bottom config	uration	Wiring pins (2×5m	m)	Panel thickness		1~5mm
Switch specific	cations	ith 2A/36V		Nut torque		5~14Nm
Contact resista	ance	≤ 50mΩ		Operating pressure		About 4N
Insulation resis	stance	≥ 1000MΩ		Operation travel		About 1.5mm
Dielectric stre	ength	1500VAC			Pedestal	PA
Ambient tempe	Ambient temperature		-20°C ~+55°C		Housing	Stainless steel / brass (chrome plated) / aluminum (oxidized)/ Nickel-plated brass
Protection leve	I	IP65/IP67 IK08			Button	Stainless steel/Stainless Steel Chrome/Aluminum (oxidized)
RoHS		Customizable		Contact po	nt	Gold-plated contact
	Built-in lamp be	eads				
	LED color	R Y G B W Thro		ree or two colors can be customized		
LED	e Rated current	Rated current le 3~48V约15mA 110~220		OV 约 2mA		
specification	Ue Rated voltage	Ue Rated voltage Ue 3V/6V/12V/24V/36V/48V				
	ED life	ED life 40,000 hours				

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.









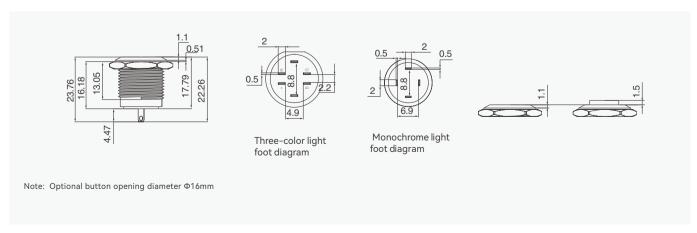




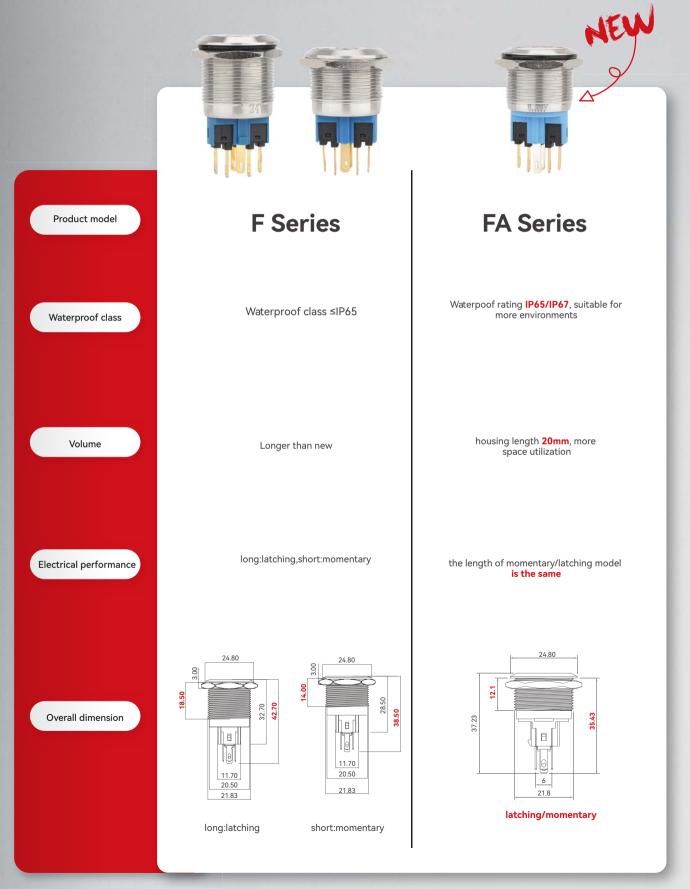




For more product information, please contact our company!



## **FA** new Metal push button switch







## **F SERIES**

#### F series push button switch

Waterproof IP65/IP67, can be used directly in outdoor scenes.

The button surface can be customized with various patterns to distinguish the switch function.

The small volume can meet the more narrow installation space.





Waterproof and dustproof

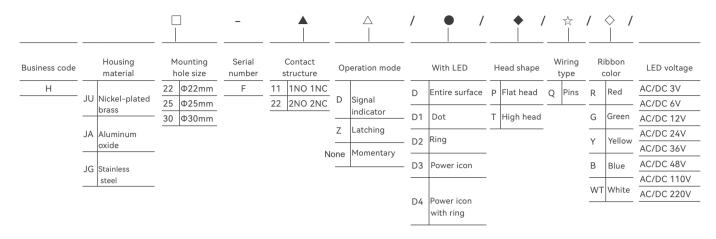




Quality assurance



#### Model description



Customize special patterns, please communicate with sales staff to confirm.

#### Summary

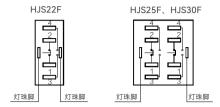
Mounting hole size	Ф22mm/Ф25mm/Ф30mm
Mounting hole size	Ith: 5A / 36VDC
Mounting hole size	1NO 1NC/2NO 2NC
Operation mode	Momentary/Latching
Head shape	Flat head
Housing material	Stainless steel / brass (chrome plated) / aluminum (oxidized)
With LED	Dot/Ring /Power icon
Protection level	IP65 IK10

#### Switch structure description

Туре	Schematic diagram	Symbol
С	NO C	NO C
Za	1	2 3 4



#### Pin description



- 1, 2, 3, 4 is a set of switches;
- 1, 2 are normally closed contact NC, 3 and 4 are normally open contact NO.
- The lamp bead legs of the conventional configuration do not distinguish between positive and negative poles.
- The lamp beads are relatively independent of the switch, and the lamp bead status can be controlled by the switch or peripheral circuit.

#### Performance characteristics

Product specifications HJ □ □ F- ▲ △		HJ □ □ F- ▲ △ / ●	Mechanical life		More than 1,000,000 times		
Head shape		Flat round	Electrical life		More than 200,000 times		
Bottom configuration		Wiring pins (2.8×10mm)	Panel thickness		1~10mm		
Switch spec	ifications	Ith: 5A Ui: 250VAC	Nut torque		5~14Nm		
Contact resi	istance	≤ 50mΩ	Operating pressur	re	About 5N		
Insulation re	Insulation resistance $\geq 1000M\Omega$		Operation travel		About 2.5mm		
Dielectric s	trength	1500VAC	Protection level		IP65 IK10		
Ambient ten	nperature	- 20°C ~+55°C					
	Contact point	Silver alloy gilding					
Materials	Button	Stainless steel		LED type	Two way LED beads (AC and DC universal)		
Materials	Housing	Stainless steel	LED parameter	Ue Rated voltage Ue	6V / 12V / 24V /110V / 220V		
	Pedestal	PBT	·	LED color	RYGBW		
RoHS		Customizable		LED life	40,000 hours		

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.

Website: www.hs-switch.com













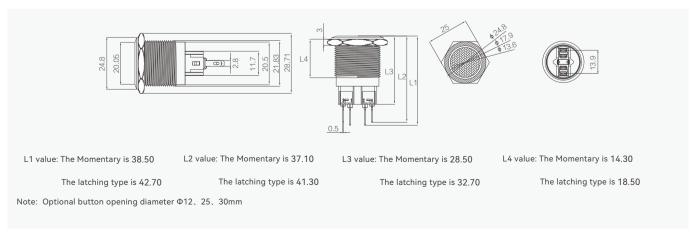








#### Outline size







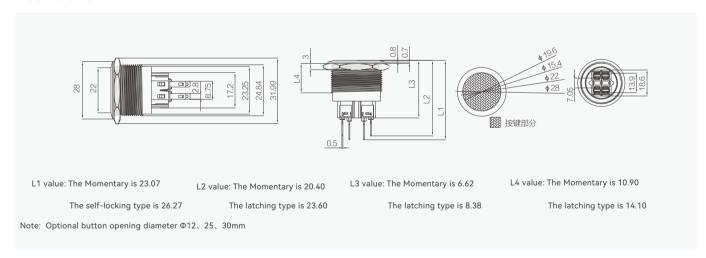








For more product information, please contact our company!









# **QC SERIES**

#### QC series push button switch

Metal shell to prevent switch failure caused by various impacts during use.

Waterproof IP65/IP67, can be used directly in outdoor scenes.

The ultra-short volume can meet the smaller installation space.

The button surface can be customized with various patterns to distinguish the switch function.





Waterproof and dustproof

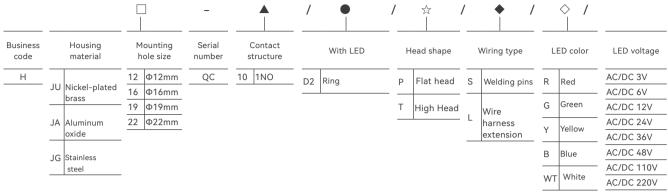




Quality assurance



#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

Customize special patterns, please communicate with sales staff to confirm.

#### Summary

Mounting hole size	Φ12mm/Φ16mm/Φ19mm/Φ22mm
Mounting hole size	Ith: 0.1A/36VDC
Mounting hole size	1NO
Operation mode	Momentary
Head shape	Flat head/High flat head
Housing material	Stainless steel//brass nickel-plated/aluminum oxidation
With LED	Ring
Protection level	IP65/IP67 IK10

#### Switch structure description

Туре	Schematic diagram	Symbol
С		

#### Performance characteristics

Product specifications HJ □□ QC- ▲△ / ●		Mechanical life	e	More than 200,000 times	
Dielectric	strength	1000Vac/50Hz	Electrical life		More than 50,000 times
Insulation r	resistance	≥ 500mΩ	Panel thicknes	hickness 1~5mm	
Contact res	sistance	≤ 50mΩ	Nut torque		5~14Nm
Switch spe	cifications	Ith: 0.1A/36VDC	Operating pre	ssure	About 15-300G
Bottom cor	nfiguration	Wiring pins (2×0.5mm)	Operation trav	vel	About 1mm
Head shap	Head shape Flat round/high Flat round Protection level		IP65/IP67 IK10		
Ambient te	mperature	-20°C ~+55°C			
	Contact point	-			
	Button	Stainless steel/aluminum oxidation		LED type	Two way LED beads (AC and DC universal)
Materials	Housing	Stainless steel/brass nickel- plated/aluminum oxidation	LED	Ue Rated voltage Ue	6V / 12V / 24V /110V / 220V
			parameter		RYGBW
	Pedestal	PA		LED color	Three or two colors can be customized
RoHS		Customizable		LED life	40000 小时 40,000 hours

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.

57 HAN SHANG

Website: www.hs-switch.com













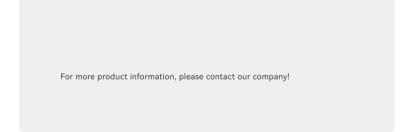


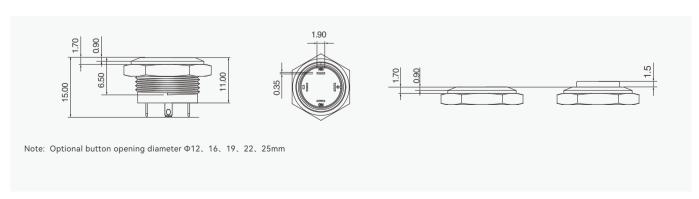
















## **M SERIES**

M series push button switch

Metal shell to prevent switch failure caused by various impacts during use.

Waterproof IP65/IP67, can be used directly in outdoor scenes.

The ultra-short volume can meet the smaller installation space.

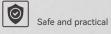
20A current meets more load requirements.

The button surface can be customized with various patterns to distinguish the switch function.





Waterproof and dustproof



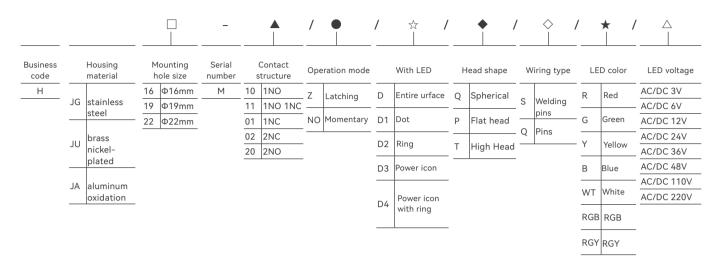


Quality assurance

Website: www.hs-switch.com



#### Model description



Note: Please read the product description carefully and select the corresponding code in the table according to different symbols.

Customize special patterns, please contact the sales staff to confirm.

Shell material: brass nickel plating, stainless steel, aluminum oxidation, order please indicate the shell material.

Switch pin, silver plated brass by default, gold plated brass optional.

#### Summary

Mounting hole size	Ф16mm、Ф19mm、Ф22mm
Mounting hole size	20A
Mounting hole size	1NO 1NC / 2NO 2NC
Operation mode	Momentary/Latching
With LED	Ring /Power icon with ring
Housing material	Stainless steel/Copper nickel plated/Aluminum
Protection level	Customizable IP65/IP67

#### Switch structure description

Туре	Schematic diagram	Symbol
М	LED NO NO LED	

 $\label{eq:Description:Double break slow action contact switch with two terminals} \\$ 



## Performance characteristics

Product specifications HJ $\square$ - $\square$ / $\triangle$ / $\bullet$ / $\diamondsuit$			Mechanica	al life	More than 1.,000,000 times		
Head shape Spherical/flat round/high fla		at round	Electrical life		More than 40,000 times (20A); Over 60,000 times (15A); More than 200,000 times (10A)		
Bottom configuration Wiring pins (4.8×4.8×0.8m		nm )	Panel thickness		1~5mm		
Switch specifica	tions	20A		Nut torqu	e	5~14Nm	
Contact resistar	ice	≤ 50mΩ		Operating	pressure	About 4N	
Insulation resist	ance	≥ 1000MΩ		Operation travel		About 1.5mm	
Dielectric strength		2500VAC			Pedestal	PA	
Ambient temper	ature	-20°C ~+80°C	Materials		Housing	Stainless steel/Brass (nickel plated)/Aluminum (oxidized) /PC	
Protection leve	I	IP65/IP67 IK08			Button	PC/ Stainless steel	
RoHS		Customizable		Contact point		Silver alloy contact	
	Built-in lamp be	eads					
LED color				R Y G B W Three or two colors can be customized			
LED	Ue Rated voltage	Ue Rated voltage Ue 3V/6		V/12V/24V/36V/48V/110V/220V			
specification	le Rated curren	t le	3 to 48V	9 48V About 15mA 110 to 220V about 2mA			
	LED life	LED life		ours			

Note: If unidirectional DC LED lamp beads are required, they can be customized; Other voltage specifications can be customized as required.











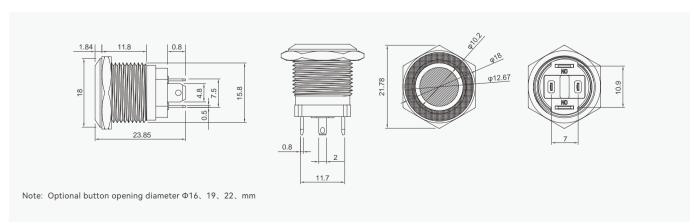








For more product information, please contact our company!











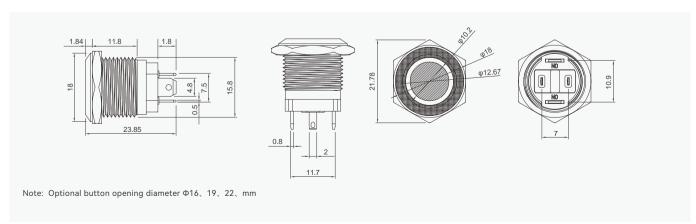








For more product information, please contact our company!







## **U SERIES**

#### U series plastic button switch

The button surface can be customized with various patterns to distinguish the switch function.

The design of split installation can better meet the installation requirements of customers.

The switch housing adopts the painting process of automobile parts, so that the product has more colors for customers to choose.





Waterproof and dustproof





Quality assurance



#### Summary

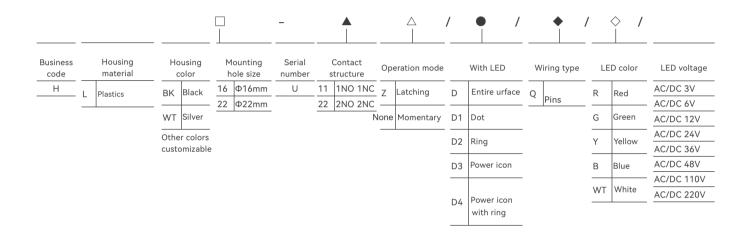
Specifications: indicator, button, button with light,

Performance: The product has the characteristics of stable performance, small contact resistance, strong insulation, vibration resistance, impact resistance, etc. Comply with IEC60947-5-1, GB14048.5 and other standards.

Structure: The switching element adopts the "fast moving" structure, each switching element contains a normal open and a normal close, and each button can be configured with a maximum of 2 switching components.

Features: Veneer mounting mode, the front frame of the product is only 2mm higher than the panel. Button covers can be customized in various patterns. Protection level: IP40

#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

Customize special patterns, please communicate with sales staff to confirm.

#### Switch Rating

Ui UiRated insulation voltage UI		250V						
Ith Heating current Ith		The ith 5A temperature do	The ith 5A temperature does not exceed the allowable current of the maximum					
Rated operating voltage			12V	24V	110V	220V		
	50/60Hz AC	resistive load	-	-	1A	0.5A		
rated		inductive load	-	-	0.7A	0.5A		
operating current	DC	resistive load	1A	1A	0.2A	-		
	DC	inductive load	0.7A	0.7A	0.1A	-		
Contact material		terling silver gilded	terling silver gilded					

Minimum adapted load: 3V AC/DC 5mA (reference value) (range of use depends on usage environment and load type)

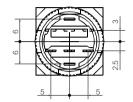


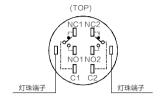
#### LED specifications

LED type	Two way LED beads (conventional configuration)			
Ue Rated voltage Ue	AC/DC6V	AC/DC12V		AC/DC24V
	AC/DC110V		AC/DC220V	
LED color	R Y G B W			
Longevity life	About 40,000 hours			

Note: The lamp bead has built-in protection resistor, no external connection is required. If DC unidirectional LED lamp beads are required, they can be customized;

Other voltage specifications can be customized as required; Red and green color change can be customized.

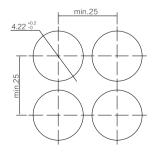




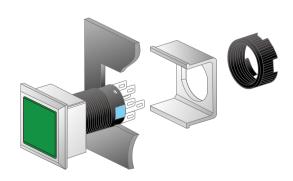
### Performance characteristics

Working environment		t	-25° C~+55° C (no freezing) must be air circulation around the lighting switch body		
Working environment		t	45~85%RH (non-condensing)		
Contact resistance			≤ 50mΩ		
nsulation resistance			≥ 1000MΩ		
Maximum	Between the contact and the lamp bead pin		2000 volts, 50 Hz AC,1 min		
withstand Between	Between t	he same extremes	1000 volts, 50 Hz AC,1 min		
voltage Between		ifferent electrode terminals	2000 volts, 50 Hz AC,1 min		
Vibration resistance			50 Hz, amplitude about 1.2mm		
Impact resistance			More than 10g		
Longevity life weapo		Momentary button	200,000 times		
	Machine	Latching button, selection	200,000 times		
	weapons	key push button, emergency stop	100,000 times		
	Electricity	,	More than 50,000 times		
Wires			2×0.8mm Welding wire diameter: 2×0.8mm		
			0.75mm <sup>2</sup> Maximum copper wire area: 0.75mm <sup>2</sup>		
			2.8×0.5mm wiring pins: 2.8 x 0.5mm		
Soldering heat			At 320° C (or 30 watts of soldering iron) no more than 2 seconds		
Operation travel			(Button) Approx. 3mm		
Operation force			(on the LED shade) depending on the number of switching elements, 1~4 Newton (100gf~400gf)		

#### Mounting hole size



## Installation diagram



超薄可定制图案带灯按钮, 面板以上仅 2mm 厚

Ultra-thin customizable pattern with illuminated button, only 2mm thick above the panel



#### Metal button

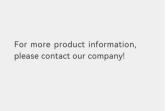


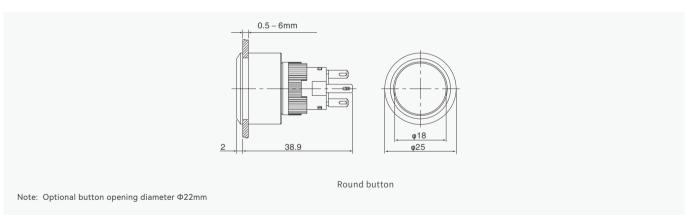


















# **L16A SERIES**

#### L16 Series plastic push button switch

Sterling silver gold-plated contact.

Different shapes of buttons are available for choice, and the operation feels

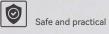
more comfortable to meet different needs.

Instantaneous contact, pressing instant switch.





Waterproof and dustproof





Quality assurance



#### Summary

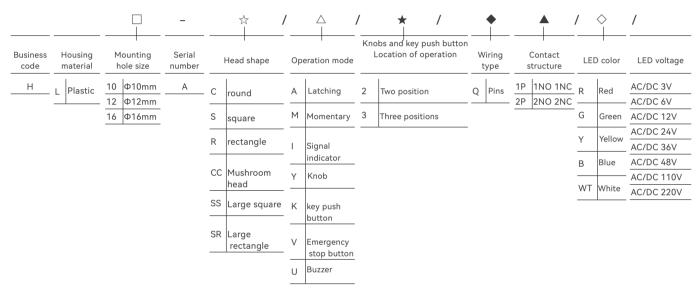
Specifications: The shape of the front frame of the product has three specifications: round (Ф18mm), square (18×18mm), rectangular (18×24mm), including letter indicator, button, button with light, knob, key button emergency stop button, buzzer,

Its conventional mounting hole diameter is  $\Phi$ 16mm, and some products can be equipped with reducer rings to install the product in the mounting hole of  $\Phi$ 22mm. Performance: The product has the characteristics of stable performance, small contact resistance, strong insulation, vibration resistance and shock resistance; It meets the standards of IEC60947-5-1, GB14048.5 and so on.

Structure: The switching element adopts the "quick action" structure, each switching element contains one normally open and one normally closed, and each button can be configured with up to 2 switching elements.

Protection level: its own protection level is IP40, IP65, and some products can be equipped with sealing covers to achieve IP65/IP67.

#### Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

Customize special patterns, please communicate with sales staff to confirm.

#### Switch Rating

Ui UiRated insulation voltage UI		250V	250V			
Ith Heating current Ith		The 5A temperature does	The 5A temperature does not exceed the allowable current of the maximum			
Rated operating voltage			12V	24V	110V	220V
	50/60Hz AC	resistive load	-	-	1A	0.5A
		inductive load	-	-	0.7A	0.5A
rated operating current	DC	resistive load	1A	1A	0.2A	-
		inductive load	0.7A	0.7A	0.1A	-
Contact material		Sterling silver gilded	Sterling silver gilded			

Minimum adapted load: 3V AC/DC 5mA (reference value) (range of use depends on usage environment and load type)

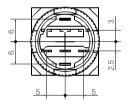
#### LED specifications

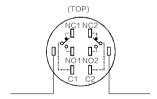
LED type	Two way LED beads	Two way LED beads (conventional configuration)			
Ue	AC/DC6V	AC/DC12V		AC/DC24V	
Rated voltage Ue	AC/DC110V		AC/DC220V		
LED color			R G Y O B W		
Longevity life	About 40,000 hours	About 40,000 hours			

Note: The lamp bead has built-in protection resistor, no external connection is required. If DC unidirectional LED lamp beads are equired, they can be customized; Other voltage specifications can be customized as required; Red and green color change can be customized.

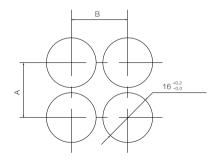
#### Performance characteristics

Working environment			-25° C~+55° C (no freezing) must be air circulation around the lighting switch body		
Working e	Working environment		45~85%RH (non-condensing)		
Contact res	istance		≤ 50mΩ		
Insulation i	resistance		≥ 1000MΩ		
Maximum	Between th	e contact and the lamp bead pin	2000 volts, 50 Hz AC,1 min		
withstand	Between th	e same extremes	1000 volts, 50 Hz AC,1 min		
voltage	Between di	fferent electrode terminals	2000 volts, 50 Hz AC,1 min		
/ibration resistance			50 Hz, amplitude about 1.2mm		
mpact resis	stance		More than 10g		
		Momentary button	200,000 times		
Lamanitus	Machine	Machine Latching button, selection	200,000 times		
Longevity life	weapons	Key button, emergency stop	100,000 times		
	Electricity		More than 50,000 times		
			2×0.8mm Welding wire diameter: 2×0.8mm		
wiring			0.75mm <sup>2</sup> Maximum copper wire area: 0.75mm <sup>2</sup>		
			2.8×0.5mm wiring pins: 2.8 x 0.5mm		
Soldering heat			At 320° C (or 30 watts of soldering iron) no more than 2 seconds		
Operation	travel		(Button) Approx. 3mm		
Operation	force		(on the LED shade) depending on the number of switching elements, 1~4 Newton (100gf~400gf)		





# Mounting hole size



Туре	A	В
round	≥ 18mm	≥ 18mm
square	≥ 18mm	≥ 18mm
rectangle	≥ 18mm	≥ 24mm
Mushroom head	≥ 24mm	≥ 24mm
Large square	≥ 24mm	≥ 24mm
Large rectangle	≥ 18mm	≥ 24mm

HAN SHANG 70



#### Metal button











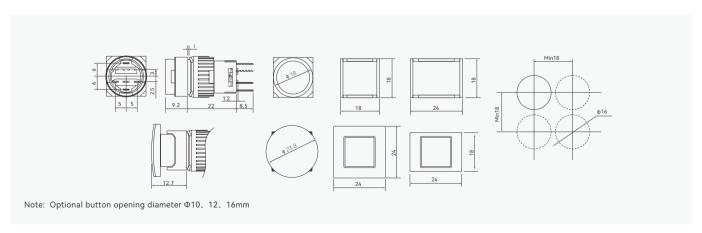








#### Outline size





#### Metal button

















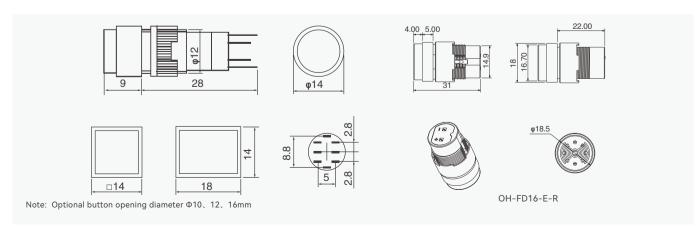








#### Outline size









ZT series emergency stop button

Silver alloy contact

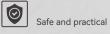
Small size for more compact installation space,

Maximum waterproof IP65





Waterproof and dustproof

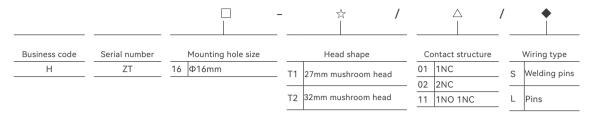




Quality assurance



### Model description



Note: Please read the product description carefully and select the corresponding code in the table according to different symbols.

#### Performance characteristics

Product spec	Product specification HZT- $\Box$ - $\Leftrightarrow$ / $\triangle$ / $\spadesuit$		Mechanical life	More than 100,000 times		
Dielectric strength		2000VAC	Electrical life	More than 50,000 times		
Insulation res	sistance	≥ 1000MΩ	Panel thickness	1~10mm		
Contact resis	stance	≤ 50mΩ	Nut torque	5~14Nm		
Switch specifications		ith 2A/250V	Operating pressure	3N~5N		
Bottom configuration		Wiring pins (2.8×9mm)	Operation travel	About 1.3mm		
Head shape		High flat head	Protection level	IP40/IP65		
Ambient tem	perature	-20°C ~+55°C				
	Contact point	Silver contact/Silver alloy contact				
	Button	PC				
Materials Housing		PC				
	Pedestal	PBT				
RoHS		Customizable				

Email: business@hungsing.cn



#### witch structure description

Туре	Schematic diagram	Symbol
С	NO C	NO — C

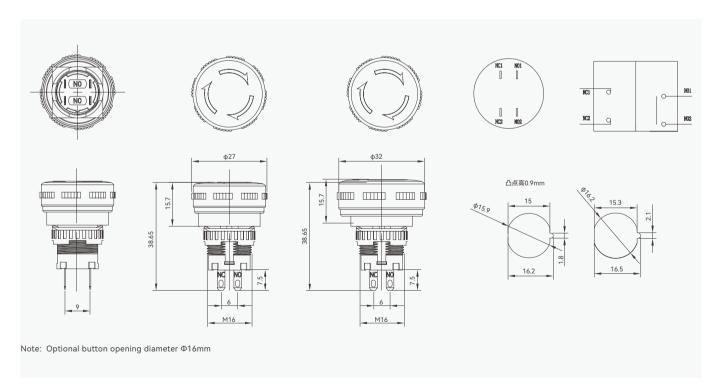
#### Metal button





For more product information please contact our company!

#### Outline size



75 HAN SHANG

Website: www.hs-switch.com

Email: business@hungsing.cn





# **WARNING LIGHT SERIES**

#### Three-color warning light series

The silent warning light is waterproof up to IP67 and can be used in outdoor

Metal shell, compared with the traditional plastic warning light texture, visual effect is better.

Metal shell material, shape plasticity is more convenient, can be customized according to customer patterns any shape.

Three-color integrated LED lights make the product more flat.

The flexible white light guide makes the light more soft.





Waterproof and dustproof



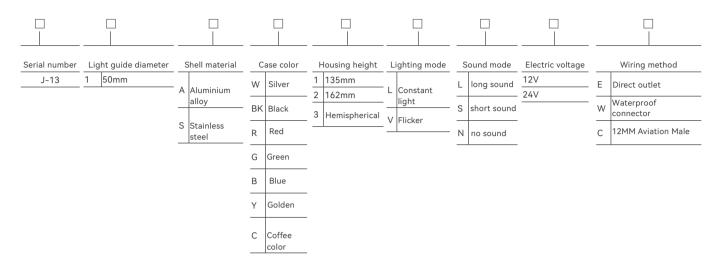
Safe and practical



Quality assurance



# Model description



Note: Please read the specific description of the product carefully, and select the corresponding code in the table according to different symbols.

Customize special patterns, please communicate with sales staff to confirm.

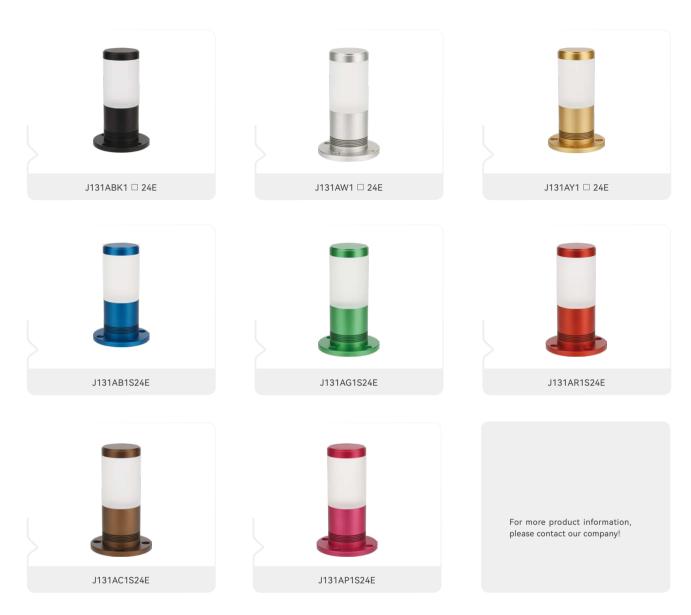
Shell material: Aluminum alloy, stainless steel, please specify the shell material, the default is aluminum alloy shell.

# Summary

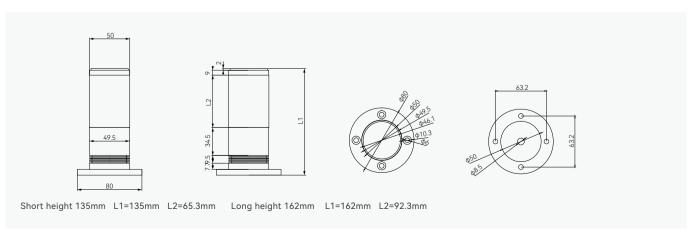
Housing material	Aluminum alloy, stainless steel	
Light guide column material	Acrylic, PC	
Product light source	Multi-color LED light	
Product light effect	RGY	
Sound source effect	long sound、short sound	
Sound source decibels	≈ 85db	
Product life	5000 hours	
Product power	3W	
Operating voltage	12V、24V	
Product exit method	Direct outlet, waterproof joint, aviation male	
Operating temperature	-20° C to 70° C	
Case color	R Y G B W BL	



# Column three color warning light



#### Outline size



Email: business@hungsing.cn



# Three color warning light











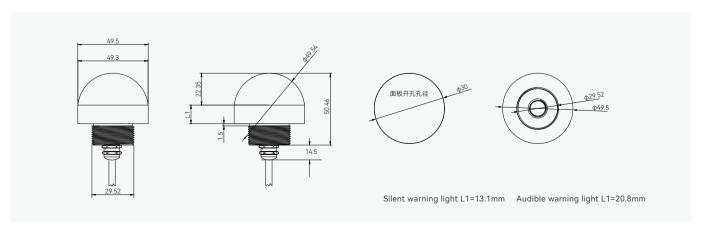








#### Outline size





Name	Form	Scope of Application	Model		Use	
Protective		Round and square button applies	HL16A- 200S	32.4 0.5-5	Prevent misoperation - the sameL16 series	
cover		Rectangle button applies	HL16A- 200R	32.4 0.5-5		
receptacle		Soldered sockets	HL16A- 100	25 3 33.5 TO NO	It is set on the back of the button to facilitate the installation and	
	MR OR	PCB socket	HL16A- 101	2.5 3 33.5 0.2x1.5 2.5 3 0.0 pg 0.0 p	maintenance of the button	
Reducer ring		Reducer ring	HL16A- 22HJQ	Ф16mm series of round buttons are universally set on the mo A 16mm round button and signal indicator can be installed	unting hole,	

# Product legend

Name	Form	Scope of Application	Model		Use
		HJ □ 16A Hutton fit	HJ □ 16A - 300	24.5 24.5 24.5 24.5	
		HJ   19AF  HJ   19D  HJ   22A  HJ   25A  Hutton fit	HJ □ 19AF - 300	25.2	
Connector	The state of the s	HJ 🗆 22F Hutton fit	HJ □ 22F - 300	7 <b>88 9 9 9 9 9 9 9 9 9 9</b>	
		HJ □ 22F HJ □ 30F Hutton fit	HJ □ 25F - 300	\$ 88	



Name	Form	Scope of Application	Model		Use
	The state of the s	16mm 16mm Button fit	HMH16- 25X86	92.5 • 4.9 • 4.9 • 6.5 • 7.5 • 7	
Install the panel		19mm 19mm Button fit	HMH19- 3511	54.8 12.25 18.74 19.6 109.6 H=1MM	
		19mm 19mm Button fit	HMH19- 86X86	86.5 (4.9 • 19.2 (8) (9) (10)	

# **Product legend**

Name	Form	application	Model		Use
		HJ □ 12E HJ □ 12E Hutton fit	HJ □ 12E- 200S High cover model	20.9 N N N N N N N N N N N N N	
		HJ   16A HJ   16H HJ   16C HJ   16E HJ   16A HJ   16H HJ   16C HJ   16C HJ   16E Hutton fit	HJ □ 16A- 200S	20.9 80 1.5 1.5 1.5 1.5 1.3	
Protective cover		HJ   19A HJ   19AF HJ   19H HJ   19C HJ   19D HJ   19A HJ   19AF HJ   19H HJ   19C HJ   19D Hutton fit	HJ □ 19AF- 200S	27.8 27.8	Prevent misoperation
		HJ   22A HJ   22H HJ   22F HJ   22G HJ   22A HJ   22H HJ   22F HJ   22F HJ   22G Hutton fit	HJ □ 22A-200S	27.8 27.8 27.8 27.1 1.4 1.5 5.7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	





Name	Form Scope of Application		Model
		Suitable for Φ19 22 25 pushbutton switch	HFSH-45×45
		Suitable for Φ12 16 19 pushbutton switch	HFSH-45×45R
Metal button box		Suitable for Φ12 16 19 pushbutton switch	HFSH-65×65
	800	Suitable for Φ19 22 25 pushbutton switch	HFSH-65×65R

Note: The button is only for effect display.

Name	Form	Scope of Application	Model	Use
Metal plugs		Suitable for a full range of buttons	HDT-S-8 HDT-S-12 HDT-S-16 HDT-S-19 HDT-S-22 HDT-S-25 HDT-S-30	Compared with traditional plastic plugs, metal plugs are more aesthetically pleasing.

Name	Form	Scope of Application	Model	Installation example	Use
Oil and waterproof cover		Suitable for Φ12 16 19 22 25 pushbutton switch	HJ   12FZ- 300S  HJ   14FZ- 300S  HJ   19FZ- 300S  HJ   22FZ- 300S  HJ   25FZ- 300S		watertight Oil repellent dustproof

HAN SHANG 82

Email: business@hungsing.cn



Name	Form	Scope of Application	Model	Use
	EMERS.	Installation aperture Φ22–30mm	JTF-22-01 Small	
	STOR	Installation aperture Φ22-30mm	JTF-22-20 with text	
		Installation aperture Φ22-30mm	JTF-22-20 No text	
Metal Protective cover		Installation aperture Φ22-30mm	JTF-22-01 Big	Prevent misoperation
		Installation aperture Φ16mm	JTF-16-07	
		Installation aperture Φ16-30mm	L38-22BHG-WT	
		Installation aperture Φ16-30mm	L38-22BHG-B	





# **LA38 SERIES**

#### LA38 Button switch

In this series, the button head and the middle are connected with in-line fixed installation method . It is resistant to shock, drop and vibration, and is suitable for use in harsh environments.

In this series, a guide rod installed in the movable leaf spring makes contacting more stable and consistent, which greatly improves electrical performance stability and life; The wiring pattern plate is embedded for easy installation and hard to lose; The performance parameters of laser printing ensure long-term use without affecting recognition.

Composed of button head, middle and contact , adopting advanced non-fastener latching connection, safe and reliable, easy to assemble and disassemble, installed on the  $\Phi 22$ mm panel by using wrench without any accessories makes the installation more robust and reliable.

Using high-quality engineering flame-retardant materials, excellent insulation performance and reliable contact.

Products comply with standards such as IEC60947-5-1, GB/T14048.5.

The contact elements are flat pressing and quick-acting, the contact bases (up to 4)can be combined as required and each contact base can be installed with 2 groups of contact elements, which can meet the requirements of making specific control circuits. Installation aperture:  $\Phi$ 22mm

Function: Momentary pushbutton switch, latching pushbutton switch, illuminated pushbutton switch, Knob Switch, key push button, E-Stop pushbutton switch, mushroom pushbutton switch, stainless steel pushbutton switch, twin pushbutton switch. Switch contact combination: 01/10/02/20/11/22/03/30/04/40/12/21/13/31

Protection level: IP40, IP65 for some customized products.

HAN SHANG 84



#### **Installation Notes**

The three-position knobs need to be installed directionally(look for 'TOP') ,others don't .



# **Switch Ratings**

Ui Rated insulation voltage Ui				600V					
Ith Rated thermal current Ith				10A					
Ue Rated operational voltage Ue			24V	48V	110V	220V	380V		
	40.50//011	Resistive load	10A	-	10A	6A	-		
le	AC 50/60Hz	Inductive load	10A	-	6A	3A	2A		
Rated operational current le		Resistive load	8A	4A	2.2A	1.1A	-		
	DC	Inductive load	4A	2A	1.2A	0.6A	-		
Contact material				Silver alloy					

Minimum applicable load: 3V AC.DC 5mA(Reference value) (The applicable range depends on the use environment and load type)

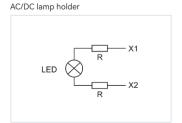
# **Specifications**

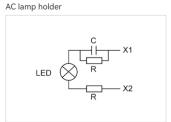
Ambient temperature	) -25°C ~+75°C (With no icing)
Humidity	45~85%RH
Contact resistance	≤ 50mΩ
Insulation resistance	≥ 100MΩ
Power frequency withstand voltage	1890VAC/50Hz/60s
Vibration resistance	Amplitude: about 1.0mm/50Hz
Impact resistance	> 10g
Protection level	IP40
Electrical life	≥ 10 万次
Wiring capacity	Maximum: 2×1.5mm² or Minimun: 2×0.75mm²
	insert: 6.3×0.8mm

# **LED Specifications**

LED type	Two way LED beads					
	AC/DC 6V	AC/DC 12V	AC/DC 24V			
Ue	AC/DC 36V AC/DC 48V		AC/DC 110V			
Rated voltage Ue	AC/DC 220V	AC/DC 380V				
	AC 110V	AC 220V	AC 380V			
LED color RD GN YE BU W						
LED life	≥ 40000h					

# Lamp Holder Circuit Schematic





85 HAN SHANG

Website: www.hs-switch.com Email: business@hungsing.cn



### **Contact Form Description**

he two digits in the model number represent the contact form  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

- O The first digit "1" indicates the first pair of contacts on the first section of the element, "2" means the second pair.
- O The second digit "1, 2" represents the 2 terminals of NC contact, and "3, 4" represents the 2 terminals of NO contact.

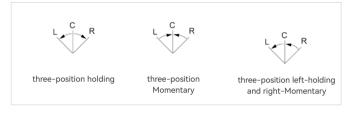
Contact code	11	20	20 02		01	
Contact name	(1NO1NC)	(2NO)	(2NC)	(1NO)	(1NC)	
State diagram	000	0000	• • • •	00	•   •	

# Working Position And Contact State

O Two-position and contact ON AND OFF state diagram

two-position holding two-position Momentary

 $\bigcirc$  Three-position and contact ON AND OFF state diagram



Email: business@hungsing.cn

Туре	•	${\mathfrak S}$	Туре	<b>S</b>	•	9
LA38-11 ■ -2			LA38-11 ■ -3	• • • •		0000
LA38-20 ■ -2	0000		LA38-20 ■ -3		0000	
LA38-02 ■ -2	• • • •		LA38-02 ■ -3		• • • •	
LA38-22 ■ -2			LA38-22 ■ -3			0000
LA38-31 ■ -2			LA38-31 ■ -3			
LA38-13 ■ -2			LA38-13 ■ -3			
LA38-40 ■ -2			LA38A-40 ■ -3		0000	
LA38-04 ■ -2		0000	LA38A-04 ■ -3			



#### Model Number Structure

ZS40/60

ZSD 40/60

Χ

XC

XD

Υ

**PNSW** 

GNSW

E-Stop button

Knob

Long knob

Illuminated knob

key push button

Twin flat pushbutton PNDSW Illuminated flat button

Twin high pushbutton GNDSW Illuminated twin high pushbutton

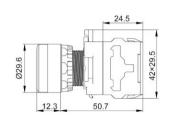
Illuminated E-stop button

The following table is the type explanation. Some combinations have no actual products. For details, please refer to product selection or consulting manufacturers.

LA38		-		<u> </u>	_		·	<b>A</b>		<u> </u>		<u>•</u>
Serial number		Operation mode	_	Color	_ 5	Select switch position		Function		Voltage code	_ Co	ntact code
	PN	Momentary flat button	R	Red		Two-position holding	Q2	Painted plastci head	Т	AC/DC 6V	01	1NC
	PNZS	Latching flat button	G	Green		type	C2	Plastic head	J	AC/DC 12V	10	1NO
	PND	Illuminated self-rest flat button	Υ	Yellow		Two-position Momentary type	T2	Transparent head	В	AC/DC 24V	02	2NC
	PNDZS	Illuminated latching flat button	В	Blue	31	Three-position	S2	S2 Stainless steel head	<u>C</u>	AC/DC 36V	_ 20	2NO
	GN	Momentary high button	W	White		holding type	FH1	" ↓ "custom code	E FD	AC/DC 48V	11 - <del></del>	1NO 1NC
	GNZS	Latching high button	ВК	Black		holding and right-	FH2	" - " custom code " - " custom code " - " custom code		AC/DC 110V AC/DC 220V	22 03	02+01
	GND	Illuminated Momentary high button		For the optional colors of some types,please refer to product selection (illuminated product without black)		FH3	" - " custom code	_	AC/DC380V	30	20+10	
	GNDZS	Illuminated latching high button	refer		33	Three-position  Momentary type	FH4	" = " custom code		AC 110V	04	02+02
	S	Stainless steel Momentary flat button	(illur				FH5	"START" custom code		AC 220V	40	20+20
	SZS	Stainless steel latching flat button					FH6	"STOP" custom code	Q	AC 380V	12	11+01
	SD	SD Illuminated stainless steel Momentary				IP65				21	11+10	
		flat button					K Anti-interference				13	11+02
	SDZS	Illuminated stainless steel latching flat button									31	11+20
	M40/60	Mushroom Momentary button					D	Special load (consult the manufacturer for				C contact inations
	MZS 40/60	Mushroom latching button						details)			based	l on needs.
	MD 40/60	Illuminated mushroom Momentary button										
	MDZS 40/60	Illuminated mushroom latching button										



Function type	Location symbol	Product reference
Momentary flat pushbutton switch		LA38-PN- ○ -Q2-11
Latching flat pushbutton switch	_	LA38-11PNZS-Q2- 〇







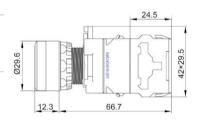






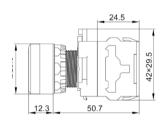
Color:	
WH ON RD	YE BU

Function type	Location symbol	Product reference
Illuminated Momentary flat pushbutton switch		LA38-11PND-Q2- ○ △
Illuminated latching flat pushbutton switch	_	LA38-11PNDZS-Q2- ○ △





Function type	Location symbol	Product reference
Momentary flat-button	\$	
pushbutton switch with custom symbol	0	LA38-11PN-Q2/FH*- O
	ē	
Latching flat-button	1 1	
pushbutton switch with custom symbol	启动	LA38-11PNZS-Q2/FH*- O
	STOP	



$C_{\alpha}$	۱.	,	٠
CO	IU	ı	٠







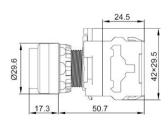




`		
	(BU)	



Function type	Location symbol	Product reference
Momentary high pushbutton switch		LA38-11GN-Q2- 〇
Latching high pushbutton switch	_	LA38-11GNZS-Q2- O



Color:



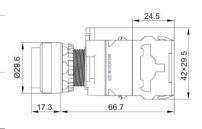








Function type	Location symbol	Product reference
Illuminated Momentary high pushbutton switch	_	LA38-11GND-Q2- ○ △
Illuminated latching high pushbutton switch		LA38-11GNDZS-Q2- ○ △









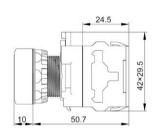








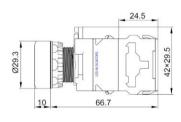
Function type	Location symbol	Product reference
Stainless steel Momentary flat pushbutton switch	-	LA38-11S-S2
Stainless steel latching flat pushbutton switch		LA38-11SZS-S2







Function type	Location symbol	Product reference
Illuminated stainless steel Momentary pushbutton switch	-	LA38-11SD-S2- ○ △
Illuminated stainless steel latching pushbutton switch		LA38-11SDZS-S2- ○ △







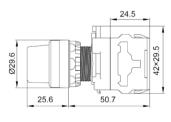








Function type	Location symbol	Product reference
Two-position holding knob switch	LR	LA38-11X21-Q2-BK
Two-position Momentary knob switch	L R	LA38-11X22-Q2-BK
Three-position holding knob switch		LA38-20X31-Q2-BK
Three-position Momentary knob switch		LA38-20X33-Q2-BK
Three-position left-holding & right-Momentary knob switch		LA38-20X32-Q2-BK



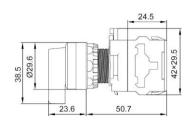
Color:





Color:	

Function type	Location symbol	Product reference
Two-position holding long- knob switch	LR	LA38-11XC21-Q2-BK
Two-positon Momentary long- knob switch	L R	LA38-11XC22-Q2-BK
Three-position holding long-knob switch	L C R	LA38-20XC31-Q2-BK
Three-position Momentary long-knob switch	L C R	LA38-20XC33-Q2-BK
Three-position left-holding & right-Momentary long-knob switch	C R	LA38-20XC32-Q2-BK

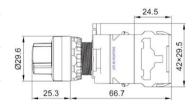




颜色 Color:

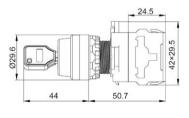


Function type	Location symbol	Product reference
Illuminated two- position holding knob switch	LR	LA38-11XD21-Q2- ○ △
Illuminated two- position Momentary knob switch	L R	LA38-11XD22-Q2- ○ △
Illuminated three- position holding knob switch	L C R	LA38-20XD31-Q2- ○ △
Illuminated three- position Momentary knob switch	L C R	LA38-20XD33-Q2- ○ △
Illuminated three-position left-holding & right- Momentary knob switch	L C R	LA38-20XD32-Q2- ○ △



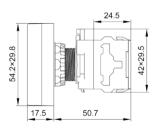


Function type	Location symbol	Product reference
Two-position holding key push button switch	LR	LA38-11Y21-L2
Two-position Momentary key pushbutton switch	L R	LA38-11Y22-L2
Three-position holding key push button switch	L C R	LA38-20Y31-L2
Three-position Momentary key-push button switch	L C R	LA38-20Y33-L2
Three-posistion left-holding & right Momentary key push button switch	L C R	LA38-20Y32-L2



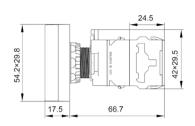


Function type	Location symbol	Product reference
Twin pushbutton switch	0	LA38-11PNSW-Q2





Function type	Location symbol	Product reference
Illuminated twin pushbutton switch	0	LA38-11PNDSW-Q2-YE △



Color: Default Yellow

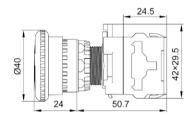
Optional:







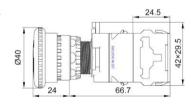
Function t	ype	Location symbol	Product reference
40 E-Stop	pushbutton switch	-	LA38-11ZS40-C2-RD



Color: Default red Optional:



Function type	Location symbol	Product reference
Illuminated 40 E-Stop pushbutton switch	-	LA38-11ZSD40-C2-RD △

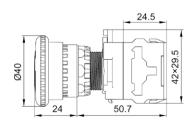


Color: Default red Optional:





Function type	Location symbol	Product reference
40 E-Stop pushbutton switch with "STOP" symbol	STOP	LA38-11ZS40-C2/FH6-RD



Color: Default red

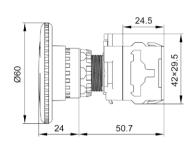
Optional:





Color: Default red Optional:

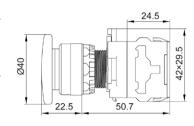
Function type	Location symbol	Product reference
60 E-Stop pushbutton switch	-	LA38-11ZS60-C2-RD





Color:	Default	red	
Ontion	al.	GN	VE

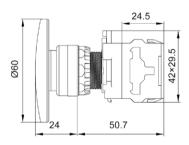
Function type	Location symbol	Product reference
40 Mushroom Momentary pushbutton switch		LA38-11M40-Q2- 〇
40 Mushroom latching pushbutton switch	_	LA38-11MZS40-Q2- 〇





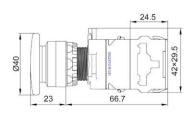
Color:	Default red
Option	al: GN

Function type	Location symbol	Product reference
60 Mushroom Momentary pushbutton switch		LA38-11M60-Q2- 〇
60 Mushroom latching pushbutton switch	_	LA38-11MZS60-Q2- 〇





Function type	Location symbol	Product reference
Illuminated 40 mushroom Momentary pushbutton switch		LA38-11MD40-Q2- ○ △
Illuminated 40 mushroom latching pushbutton switch	_	LA38-11MDZS40-Q2- ○ △



Color:









# **LD16 SERIES**

#### LD16 Signal indicator

LD16 series of signal indicators all use high-brightness, pure-color LED light-emitting chips, it has long life, low energy consumption, small size and light weight. The LED shade is made of high-strength carbonate and has good impact resistance. Built-in screw-type wiring makes it safer and more convenient.

The LD16 series signal indicator light is suitable for signal indication, advance signal, accident signal and more in the route of electric power, telecommunications, machine tools, ships, textiles, printing,mining machinery and other equipment.

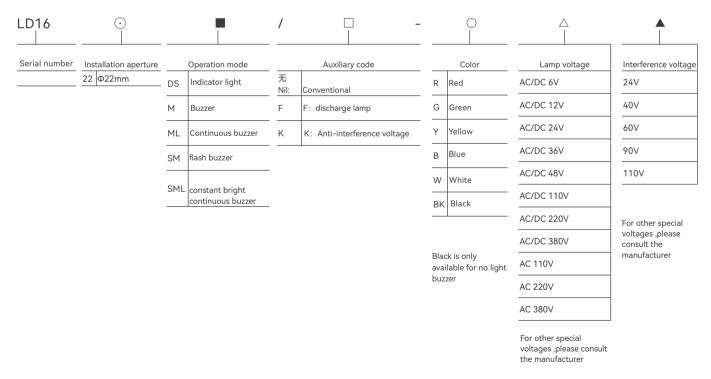
The product complies with standards such as IEC6097–5–1、 GB/T14048.5 .

#### **Specifications**

Ambient temperature	) -25°C ~+75°C (with no icing)
Humidity	45~85%RH
Continuous operational life	≥ 40000h
Allow instantaneous voltage fluctuation	±20% (above 110V)
Power frequency withstand voltage	2.5kV(AC effective value), 1min
Usage frequency(AC)	50-60Hz
Rated operational current	AC/DC6V ≤ 40mA, the rest ≤ 25mA
luminance	≥ 100cd/m²
Comparative tracking index	≥ 100, flame retardant
Insulation resistance	$5M\Omega$ while Ui ≤ 60V, $50M\Omega$ while 60V < Ui ≤ 660V
LED color	●RD ●GN VE ●BU ○WH

#### Model Number Structure

The following table is the type explanation. Some combinations have no actual products. For details, please refer to product selection or consulting manufacturers.



Email: business@hungsing.cn