









HBAN 红波[®]按钮

上海红波电器有限公司 SHANGHAI HONGBO ELECTRIC CO.,LTD.

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Brief Introducition



Shanghai Hongbo Electric Co., Ltd. is a professional manufacturer of push button switch, indicator lights, signal lamp, buzzers, high-intensity and damage and resistance metal push button switch, our products are widely used in machinery, machine tools, electric power, electronics, production control, medical, banks, ships, automation and other industries. We have state-of-the-art production, laboratory equipment and testing apparatus, and insist on the quality of survival, to serve and promote the development quality management service support system, to ensure that the product of the index is quality controlled state. After years of pioneering spirit, the company has now made a number of patents, the products have passed national mandatory CCC certification, with high quality and cost-effective, favored by the majority of users. We sincerely welcome people to join together to create brilliant.

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HBGQ Series

Model Explanation

HBGQ	*	-	- 🗆	♦	1 •	Δ .	/ _ .	/ ©
Series Number	Mounting Hole Size 8 Φ8mm 12 Φ12mm 16 Φ16mm 19 Φ19mm	The Front Shape B Domed F Flat Round H High Round S Square	Contact Configuration 10 1NO	Lamp Type D Dot E Ring	Terminal Type J Pin Terminal No letter means screw terminal.	Color of Lamp and Colorized Button R Red G Green Y Yellow O Orange B Blue W White N Black	Lamp Voltage AC/DC 6V AC/DC 12V AC/DC 24V AC/DC 36V Other voltage can be made to order	The Crust Material N Nickel–plated Brass G Gold–plated Brass S Stainless Steel A Zn–al Alloy(Black) T Zn–al Alloy(Silver White) PC Engineering plastics

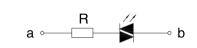
Note: Please carefully read the product specification, then select the appropriate code according to different symbols in the table.

Switch Structure Explanation

Type	Symbol	Diagram	Explanation
X		—	Switch with two terminal breakpoints slow moving contact Individual products can be customized Y-
Y		=	type normally closed switch, refer to product description.

LED Lamp Specifications

Lamp Type	Bi-directional LED lamp (AC DC Universal)
Rated Voltage	1.8V、2.8V、6V、12V、24V、36V、220V
Rated Current	about 15mA
Color	R G O B W
Life	50000 hours (reference value)



AC-DC Universal LED lamp, terminal differentiate between positive and negative; lamp beads built-in protection resistors, no external.

Note: For unidirectional DC LED lamp can be customized; other voltage specifications can request custom.

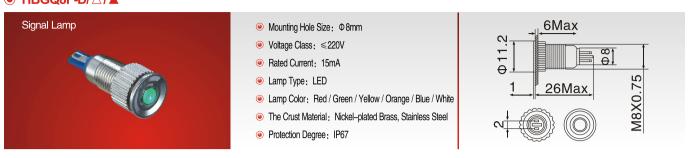
Installation Effect Preview



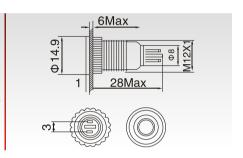
HBAN 红波较铅 HONGBO Push Button

HBGQ Signal Lamp

● HBGQ8F-D/△/▲







Specifications		HBGQ8F–D/△/▲	HBGQ12F-D/△/▲
Terminal Type Pin Terminal 1.8 × 0.4mm)		Pin Terminal 1.8 × 0.4mm)	Pin Terminal (1.8×0.4mm)
Dielect	ric Strength	1100VAC	2000 VAC
Operat	ing Temperature	-20°C ~ +55°C	-20℃ ~ + 55 ℃
Panel 7	Thickness	1 ~ 10mm	1~10mm
Torque		5 ~ 14Nm	5~14Nm
Protect	ion Degree	IP67,IK10	IP67,IK10
	Shade	PC	PC
<u>≤</u>	Case	Nickel-plated Brass	Nickel-plated Brass
Material	Base	PBT	PBT
_	RoHS	Can be made to order	Can be made to order
Lamp	Type	LED	LED
	Rated Voltage	6V/12V/24V/36V/110V/220V	6V/12V/24V/36V/110V/220V
Parameters	Rated Current	15mA	15mA
mete	Color	R G Y O B W	R G Y O B W
SIG	Life	50000Hours	50000Hours
Currer	nt Limiting Resistor	Rated Voltage 6V	12V 24V 36V Formula
U	uration Table	Current Limiting P 210 Ω,1/4W	510 Ω,1/2W 1.2k Ω,3/4W 2.2K Ω,1W $R = \frac{U - Ue}{}$
(Reco	mmended Value)	Resistor	

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HBGQ12

HBGQ12B-10/A/J

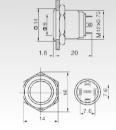


- Mounting Hole Size: Φ12mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: Domed
- The Crust Material: Zn-al Alloy
- Protection Degree: IP65,IK08 Mechanical lifetime: 1,000,000
- Pin Terminal: 2 x 0.5mm

HBGQ12F-10/N/J



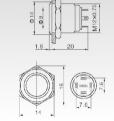
- Mounting Hole Size: Φ12mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: Flat Round
- The Crust Material: Nickel-plated Brass, Stainless Steel
- Protection Degree: IP65,IK08
- Mechanical lifetime: 1,000,000
- Pin Terminal: 2 x 0.5mm



HBGQ12F-10/E/N/J



- Mounting Hole Size: Φ12mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: Flat Round
- The Crust Material: Nickel-plated Brass, Stainless Steel
- Protection Degree: IP65,IK08
- Mechanical lifetime: 1.000,000
- Pin Terminal: 2.5 x 0.5mm High Round



Specifications		HBGQ12B−10/J/△/A	HBGQ12F–10/J/△/A	HBGQ12F–10E/J/△/▲/◎	
Terminal Type		Pin Terminal(2 × 0.5mm)	Pin Terminal(2.5 \times 0.5mm)	Pin Terminal(2.5×0.5 mm)	
Switch	Туре	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)	
Switch	Specifications	2A/36VDC	2A/36VDC	2A/36VDC	
Contac	ct Resistance	≤50m Ω	≤50m Ω	≤50 m Ω	
Insulat	ion Resistance	≥1000MΩ	≥1000MΩ	≥1000MΩ	
Dielect	tric Strength	2000VAC	2000VAC	2000 VAC	
Operat	ting Temperature	–20°C ~ +55 °C	–20°C ~ +55 °C	–20°C ~ +55°C	
Mecha	nical Life >1,000,000 times		>1,000,000 times	>1,000,000 times	
Electric	cal Life	>200,000 times	>200,000 times	>200,000 times	
Panel '	Thickness	1 ~ 5m m	1 ~ 5m m	1 ~ 10mm	
Torque)	5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm	
Operat	ting Pressure	About 5N	About 5N	About 4N	
Operat	ting Stroke	About 2.5mm	About 2.5mm	About 1.5mm	
Protec	tion Degree	IP65,IK08	IP65,IK08	IP65,IK08	
	Contact	Silver Alloy	Silver Alloy	Silver Alloy	
≤	Button	PBT	PBT	Stainless Steel: Mirror Surface, Spiral Pattern	
Material	Case	Zn-al Alloy	Nickel-plated Brass	Stainless Steel: Mirror Surface, Spiral Pattern	
<u>a</u>	Base	PBT	PBT	PBT	
	RoHS	Can be made to order	Can be made to order	Can be made to order	
H	Head Color	R G Y O B W N	Mirror Surface		

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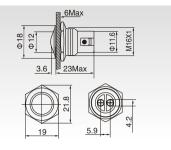


HBGQ16

● HBGQ16B-10/◎



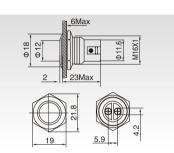
- Mounting Hole Size: Φ16mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: Domed
- The Crust Material: Stainless Steel
- Protection Degree: IP65,IK08



● HBGQ16F-10/○



- Mounting Hole Size: Φ16mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: Flat Round
- The Crust Material: Stainless Steel
- Protection Degree: IP65,IK08

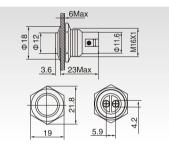


● HBGQ16H-10/◎

Http://www.HBAN.cc



- Mounting Hole Size: Φ16mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: High Round
- The Crust Material: Stainless Steel
- Protection Degree: IP65,IK08



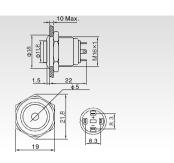
Specifications		HBGQ16B-10/◎	HBGQ16F-10/◎	HBGQ16H-10/©	
The Front Shape		Domed	Flat Round	High Round	
Termir	nal Type	Screw Terminal	Screw Terminal	Screw Terminal	
Switch	n Type	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)	
Switch	Specifications	2A/36VDC	2A/36VDC	2A/36VDC	
Conta	ct Resistance	≤50mΩ	≤50mΩ	≤50mΩ	
Insula	tion Resistance	≥1000MΩ	≥1000MΩ	≥1000MΩ	
Dielec	tric Strength	2000VAC	2000VAC	2000VAC	
Opera	ting Temperature	−20°C ~ +55°C	–20°C ~ +55°C	–20℃ ~ +55℃	
Mecha	anical Life	>1,000,000 times	>1,000,000 times	>1,000,000 times	
Electri	cal Life	>200,000 times	>200,000 times	>200,000 times	
Panel	Thickness	1 ~ 6mm	1 ~ 6mm	1 ~ 6mm	
Torqu	е	5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm	
Opera	ting Pressure	About 4N	About 4N	About 4N	
Opera	ting Stroke	About 1.5mm	About 1.5mm	About 1.5mm	
Protec	ction Degree	IP65,IK08	IP65,IK08	IP65, I K08	
	Contact	Silver Alloy	Silver Alloy	Silver Alloy	
≤	Button	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	
Material	Case	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	
<u>v</u> .	Base	PBT	PBT	РВТ	
	RoHS	Can be made to order	Can be made to order	Can be made to order	

HBGQ16

→ HBGQ16H-10D/J/ △/ ▲/



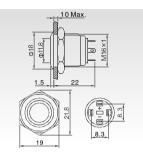
- Mounting Hole Size: Φ16mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO
- Operation Type: Momentary
- The Crust Material: Stainless Steel
- Illuminated Type: Dot
- Protection Degree: IP65,IK08



● HBGQ16F-10E/J/△/▲/◎



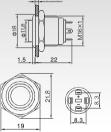
- Mounting Hole Size: Φ16mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO
- Operation Type: Momentary
- The Crust Material: Stainless Steel
- Illuminated Type: Ring
- Protection Degree: IP65,IK08



● HBGQ16H-10E/J/△/▲/◎



- Mounting Hole Size: Φ16mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO
- Operation Type: Momentary
- The Crust Material: Stainless Steel
- Illuminated Type: Ring High Button
- Protection Degree: IP65,IK08



Specif	fications	HBGQ16F–10D/J/△/▲/◎	HBGQ16F–10E/J/∆/▲/◎	HBGQ16H–10E/J/△/▲/◎
The F	ront Shape	Flat Round	Flat Round	High Round
Termi	nal Type	Pin Terminal(2 × 0.5mm)	Pin Terminal(2 × 0.5mm)	Pin Terminal(2×0.5 mm)
Switch	า Туре	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)
Switch	n Specifications	2A/36VDC	2A/36VDC	2A/36VDC
Conta	ct Resistance	≤50mΩ	≤50 m Ω	≤50 m Ω
Insula	tion Resistance	≥1000MΩ	≥1000MΩ	≥1000MΩ
Dielec	ctric Strength	2000VAC	2000 VAC	2000 VAC
Opera	ating Temperature	–20°C ~ +55°C	–20°C ~ +55°C	–20°C ~ +55°C
Mecha	anical Life	>1,000,000 times	>1,000,000 times	>1,000,000 times
Electri	ical Life	>200,000 times	>200,000 times	>200,000 times
Panel	Thickness	1 ~ 10mm	1 ~ 10mm	1 ~ 10mm
Torqu	е	5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm
Opera	ating Pressure	About 4N	About 4N	About 4N
Opera	rating Stroke About 1.8mm		About 1.8mm	About 1.8mm
Protec	ction Degree	IP65,IK08	IP65,IK08	IP65,IK08
	Contact	Silver Alloy	Silver Alloy	Silver Alloy
<	Button	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern
Material	Case	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern
<u>න</u>	Base	PBT	PBT	PBT
	RoHS	Can be made to order	Can be made to order	Can be made to order

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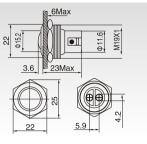
红波按钮 HONGBO Push Button

HBGQ19

● HBGQ19B-10/◎



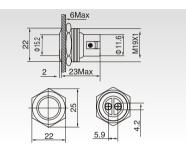
- Mounting Hole Size: Φ19mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: Domed
- The Crust Material: Stainless Steel, Nickel-plated Brass, Gold-plated Brass
- Protection Degree: IP65,IK09



● HBGQ19F-10/◎



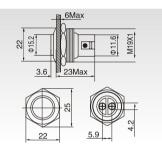
- Mounting Hole Size: Φ19mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: Flat Round
- The Crust Material: Stainless Steel, Nickel-plated Brass, Gold-plated Brass
- Protection Degree: IP65,IK09



● HBGQ19H-10/◎



- Mounting Hole Size: Φ19mm
- Switch Rating: 2A/36VDC
- Contact Configuration: 1NO (1NC can be customized)
- Operation Type: Momentary
- The Front Shape: High Round
- The Crust Material: Stainless Steel, Nickel-plated Brass, Gold-plated Brass
- Protection Degree: IP65,IK09



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Trocodon Bogroo, in object					
Specifications		HBGQ19B-10/◎	HBGQ19F-10/◎	HBGQ19H-10/◎	
The Fr	ont Shape	Domed	Flat Round	High Round	
Termin	al Type	Screw Terminal	Screw Terminal	Screw Terminal	
Switch	Туре	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)	X(Two terminal breakpoints slow moving contact)	
Switch	Specifications	2A/36VDC	2A/36VDC	2A/36VDC	
Contac	t Resistance	≤50mΩ	≤50mΩ	≤50mΩ	
Insulat	ion Resistance	≥1000MΩ	≥1000MΩ	≥1000MΩ	
Dielect	ric Strength	2000VAC	2000VAC	2000VAC	
Operat	ing Temperature	–20°C ~ +55°C	–20℃ ~ +55℃	−20°C ~ +55°C	
Mecha	nical Life	>1,000,000 times	>1,000,000 times	>1,000,000 times	
Electric	cal Life	>200,000 times	>200,000 times	>200,000 times	
Panel ⁻	Thickness	1 ~ 10mm	1 ~ 10mm	1 ~ 10mm	
Torque)	5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm	
Operat	ing Pressure	About 4N	about 4N	About 4N	
Operat	ing Stroke	About 1.8mm	About 1.8mm	About 1.8mm	
Protect	tion Degree	IP65,IK09	IP65,IK09	IP65, I K09	
	Contact	Silver Alloy	Silver Alloy	Silver Alloy	
3	Button	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	
Material	Case	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	
<u>a</u> .	Base	PBT	PBT	PBT	
	RoHS	Can be made to order	Can be made to order	Can be made to order	

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Model Explanation

HBS2	GQ	* -	- 🗆		/	Δ	1 🔺	/ ©	/
Series Number	1	The Front Shape F Flat Round H High Round C Concave Round G High-concave Round	Contact Configuration 11 1NO1NC 22 2NO2NC	Operation Type Z Latching Push Button No letter means momentary push button	E Ring	Color of Lamp and Colorized Button R Red G Green Y Yellow O Orange B Blue W White	Lamp Voltage AC/DC 6V AC/DC 12V AC/DC 24V AC/DC 36V Other voltage can be made to order	S Stainless Steel	Protection Degree IP67

Note: Please carefully read the product specification, then select the appropriate code according to different symbols in the table.

LED Lamp Specifications

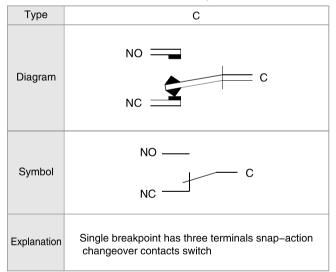
Lamp Type	Bi-directional LED lamp (AC DC Universal)					
Color	R G Y O B W					
Life	50000 hours (reference value)					
Rated Voltage	AC/DC6V	AC/DC12V	AC/DC110V	Equivalent		
nateu voltage	AC/DC24V	AC/DC36V	AC/DC220V	lent		
Rated Current	About 15mA		Current About 15mA about 3mA		about 3mA	Circuit
Step-down Way	Internal Res	sistor	Using the 6V lamp beads, need an external resistor.	E		



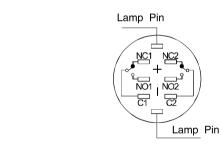
- differentiate between positive and negative; lamp beads built-in protection resistors, no external.
- Below 60V lamp beads have built-in protection resistor; Illuminated when more than 60V use 6V lamp beads, need an external dropping resistor.

Note: For unidirectional DC LED lamp can be customized; other voltage specifications can request custom.

Switch Structure Explanation



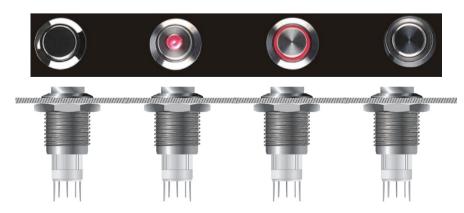
Pin Description



Can be configured up to two sets of switches.

C1, NO1, NC1 and C2, NO2 and NC2, respectively, as a set of switches;C foot utility pin and NO pin is normally open foot, the foot of the NC pin is normally closed;+, - pin light bead pin, the conventional lamp bead configuration of positive and negative distinction; Relatively independent of lamp beads and switch through the switch or the external circuit to control the status of the lamp beads.

Installation Effect Preview



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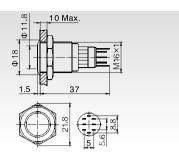


HBS2GQ

● HBS2GQF-□■/◎/☆

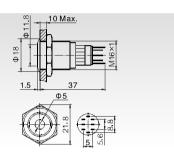


- Mounting Hole Size: Φ16mm
- Switch Rating: 3A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Front Shape: Flat Round
- The Crust Material: Stainless Steel, Nickel-plated Brass
- Protection Degree: IP67,IK09



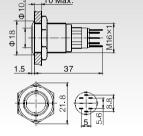


- Mounting Hole Size: Φ16mm
- Switch Rating: 3A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC Operation Type: Momentary, Latching
- The Front Shape: Flat Round
- The Crust Material: Stainless Steel. Nickel-plated Brass
- Illuminated Type: Dot
- Protection Degree: IP67,IK09





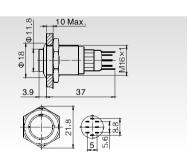
- Mounting Hole Size: Φ16mm
- Switch Rating: 3A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Front Shape: Flat Round
- The Crust Material: Stainless Steel, Nickel-plated Brass
- Illuminated Type: Ring
- Protection Degree: IP67,IK09



● HBS2GQH-□■/◎/☆

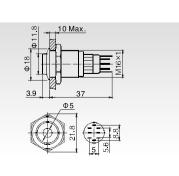


- Mounting Hole Size: Φ16mm
- Switch Rating: 3A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Front Shape: High Round
- The Crust Material: Stainless Steel, Nickel-plated Brass
- Protection Degree: IP67,IK09





- Mounting Hole Size: Φ16mm
- Switch Rating: 3A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Front Shape: High Round
- The Crust Material: Stainless Steel, Nickel-plated Brass
- Illuminated Type: Dot
- Protection Degree: IP67,IK09



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HBS2GQ



- Mounting Hole Size: Φ16mm
- Switch Rating: 3A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Front Shape: High Round
- The Crust Material: Stainless Steel, Nickel-plated Brass
- Illuminated Type: Ring
- Protection Degree: IP67,IK09

10 Max.	
3.9 37	
21.2 88 88	

Specifications		HBS2GQF-□■/◎/☆ HBS2GQH-□■/◎/☆	HBS2GQF-□■D/△/▲/◎/☆ HBS2GQH-□■D/△/▲/◎/☆	HBS2GQF-□■E/∆/▲/◎/☆ HBS2GQH-□■E/∆/▲/◎/☆
The Front Shape		Flat Round High Round	Flat Round High Round	Flat Round High Round
Termir	nal Type	Pin Terminal(2.8×0.4 mm)	Pin Terminal(2.8 × 0.4mm)	Pin Terminal(2.8 × 0.4mm)
Switch	Туре	C(Single breakpoint snap-action changeover contacts)	C(Single breakpoint snap-action changeover contacts)	C(Single breakpoint snap-action changeover contacts)
Switch	Specifications	Ith:3A Ui:250VAC	Ith:3A Ui:250VAC	Ith:3A Ui:250VAC
Contac	ct Resistance	≤50mΩ	≤50 m Ω	≤50mΩ
Insulat	tion Resistance	≥1000MΩ	≥1000MΩ	≥1000M Ω
Dielec	tric Strength	2000VAC	2000 VAC	2000VAC
Opera	ting Temperature	–20°C ~ +55°C	–20°C ~ +55°C	–20℃ ~ +55℃
Mecha	ınical Life	>200,000 times	>200,000 times	>200,000 times
Electri	cal Life	>50,000 times	>50,000 times	>50,000 times
Panel	Thickness	1 ~ 10mm	1 ~ 10mm	1 ~ 10mm
Torque	Э	5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm
Opera	ting Pressure	2.5~4N	2.5~4N	2.5~4N
Opera	ting Stroke	约2.8mm	约2.8mm	约2.8mm
Protec	tion Degree	IP40/IP67,IK09	IP40/IP67, I K09	IP40/IP67,IK09
	Contact	Silver Alloy	Silver Alloy	Silver Alloy
3	Button	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern
Material	Case	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern	tainless Steel: Mirror Surface, Spiral Pattern
<u>a</u>	Base	PBT	PBT	PBT
	RoHS	Can be made to order	Can be made to order	Can be made to order
Lamp	Lamp Type	Non-illuminated	Dot-illuminated (LED)	Ring-illuminated (LED)
ъ Р	Rated Voltage		6V/12V/24V/110V/220V	6V / 12V / 24V / 110V / 220V
Parameter	Color		R G Y O B W	R G Y O B W
eter	Life		50000 hours	50000 hours

HBAN 红波按钮 HONGBO Push Button

HBS1 Series GQ Type

Model Explanation

HBS1	GQ			/ 💠	/ 0 /	Δ	1 🔺
Series Number	Modified Code	Contact Configuration 11 1NO1NC	Operation Type Z Latching Push Button Y 钥匙钮 No letter means momentary push button	Lamp Type D Dot E Ring	Terminal Type L Screw Terminal No letter means pin terminal	Color of Lamp and Colorized Button R Red G Green Y Yellow O Orange B Blue W White	Lamp Voltage AC/DC 6V AC/DC 12V AC/DC 24V AC/DC 110V AC/DC 220V Other voltage can be made to order

Note: Please carefully read the product specification, then select the appropriate code according to different symbols in the table.

LED Lamp Specifications

Lamp Type	Bi-directi AC/DC6V	AC/DC6V AC/DC12V		amp	
Rated Voltage	AC/DC24V	AC/DC36V	AC/DC110V AC/DC220V	Equivalent	
Rated Current	About	about 3mA	/alen		
Color	R G Y O B W				
Life	50000 hours (reference value)				



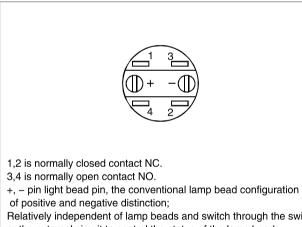
AC-DC Universal LED lamp, terminal differentiate between positive and negative; lamp beads built-in protection resistors, no external.

Note: For unidirectional DC LED lamp can be customized; other voltage specifications can request custom.

Switch Structure Explanation

Type Diagram Symbol With a four-terminal double break snap-action Explanation changeover contacts switch

Pin Description



Relatively independent of lamp beads and switch through the switch or the external circuit to control the status of the lamp beads.

Installation Effect Preview



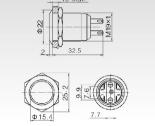
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HBS1GQ

● HBS1GQ-11□■/◎/☆



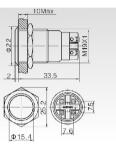
- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Protection Degree: IP65,IK09



● HBS1GQ-11□■/◎/☆



- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Protection Degree: IP65,IK09



Specif	fications	HBS1GQ-11■	HBS1GQ-11/L■
The F	ront Shape	Flat Round	Flat Round
Termi	inal Type	Pin Terminal(2.8 × 0.5mm)	Screw Terminal
Switch	h Type	ZA (Double breakpoint snap-action changeover contacts)	ZA (Double breakpoint snap-action changeover contacts)
Switch	h Specifications	Ith:5A Ui:250VAC	Ith:5A Ui:250VAC
Conta	act Resistance	≤50mΩ	≤50 mΩ
Insula	ation Resistance	≥1000MΩ	≥1000MΩ
Dielec	ctric Strength	2000VAC	2000 VAC
Opera	ating Temperature	–20°C ~ +55°C	–20°C ~ +55°C
Mecha	anical Life	>1,000,000 times	>1,000,000 times
Electr	rical Life	>50,000 times	>50,000 times
Panel	l Thickness	1 ~ 10mm	1 ~ 10mm
Torqu	ie	5 ~ 14Nm	5 ~ 14Nm
Opera	ating Pressure	About 4N	About 4N
Opera	ating Stroke	About2.5mm	About2.5mm
Protec	ction Degree	IP65(IP67 can be customized),IK09	IP65(IP67 can be customized),IK09
	Contact	Silver Alloy	Silver Alloy
7	Button	Stainless Steel	Stainless Steel
Material	Case	Stainless Steel	Stainless Steel
<u>a</u>	Base	PC	PA
	RoHS	Can be made to order	Can be made to order

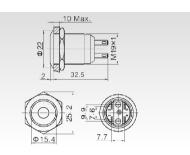
HBAN 红波较银 HONGBO Push Button

HBS1GQ

● HBS1GQ-11D/△/▲



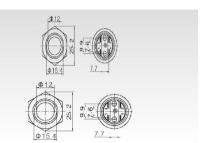
- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary
- The Crust Material: Stainless Steel
- Iluminated Type: Dot
- Protection Degree: IP65,IK09



● HBS1GQ-11E/△/▲



- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary
- The Crust Material: Stainless Steel
- Iluminated Type: Ring-illuminated
- Protection Degree: IP65,IK09



	_			
Specif	ications	HBS1GQ-11D/△/▲	HBS1GQ-11E/△/▲	
The F	ront Shape	Flat Round	Flat Round	
Termi	nal Type	Pin Terminal(2.8×0.5 mm)	Pin Terminal(2.8 \times 0.5mm)	
Switch	Туре	ZA (Double breakpoint snap-action changeover contacts)	ZA (Double breakpoint snap-action changeover contacts)	
Switch	Specifications	Ith:5A Ui:250VAC	Ith:5A Ui:250VAC	
Conta	ct Resistance	≤50mΩ	≤50 m Ω	
Insula	tion Resistance	≥1000MΩ	≥1000MΩ	
Dielec	tric Strength	2000VAC	2000 VAC	
Opera	ting Temperature	–20°C ~ +55°C	–20°C ~ +55°C	
Mecha	anical Life	>1,000,000 times	>1,000,000 times	
Electri	cal Life	>50,000 times	>50,000 times	
Panel	Thickness	1 ~ 10mm	1 ~ 10mm	
Torqu	е	5 ~ 14Nm	5 ~ 14Nm	
Opera	ting Pressure	About 4N	About 4N	
Opera	ting Stroke	About2.5mm	About2.5mm	
Protec	ction Degree	IP65(IP67 can be customized),IK09	IP65(IP67 can be customized),IK09	
	Contact	Silver Alloy	Silver Alloy	
<	Button	Stainless Steel	Stainless Steel	
Material	Case	Stainless Steel	Stainless Steel	
<u>න</u>	Base	PC	PC	
	RoHS	Can be made to order	Can be made to order	
Lar	Lamp Type	Dot-illuminated (LED)	Ring-illuminated (LED)	
ਜ਼ P	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V / 12V / 24V / 110V / 220V	
Lamp Parameter	Color	R G Y O B W	R G Y O B W	
ete	Life	50000 hours	50000 hours	

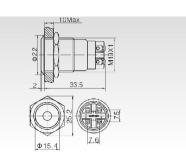
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HBS1GQ

● HBS1GQ-11D/L/△/▲



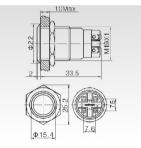
- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Iluminated Type: Dot
- Protection Degree: IP65,IK09



● HBS1GQ-11E/L/△/▲



- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Iluminated Type: Ring
- Protection Degree: IP65,IK09



Speci	fications	HBS1GQ-11D/L/△/▲	HBS1GQ-11E/L/△/▲	
The F	ront Shape	Flat Round	Flat Round	
Termi	nal Type	Screw Terminal	Screw Terminal	
Switc	n Type	ZA (Double breakpoint snap-action changeover contacts)	ZA (Double breakpoint snap-action changeover contacts)	
Switc	n Specifications	Ith:5A Ui:250VAC	Ith:5A Ui:250VAC	
Conta	ct Resistance	≤50mΩ	≤50 m Ω	
Insula	tion Resistance	≥1000MΩ	≥1000MΩ	
Dieled	ctric Strength	2000VAC	2000 VAC	
Opera	ating Temperature	–20°C ~ +55°C	–20°C ~ +55°C	
Mech	anical Life	>1,000,000 times	>1,000,000 times	
Electr	ical Life	>50,000 times	>50,000 times	
Panel	Thickness	1 ~ 10mm	1 ~ 10mm	
Torqu	е	5 ~ 14Nm	5 ~ 14Nm	
Opera	ating Pressure	About 4N	About 4N	
Opera	ating Stroke	About2.5mm	About2.5mm	
Prote	ction Degree	IP65(IP67 can be customized),IK09	IP65(IP67 can be customized),IK09	
	Contact	Silver Alloy	Silver Alloy	
3	Button	Stainless Steel	Stainless Steel	
Material	Case	Stainless Steel	Stainless Steel	
<u> </u>	Base	PA	PA	
	RoHS	Can be made to order	Can be made to order	
Lamp	Lamp Type	Dot-illuminated (LED)	Ring-illuminated (LED)	
ಕ್ಕ	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V / 12V / 24V / 110V / 220V	
Parameter	Color	R G Y O B W	R G Y O B W	
eter	Life	50000 hours	50000 hours	

HBAN 红波较银 HONGBO Push Button

HBS1 Series AGQ Type

Model Explanation



Note: Please carefully read the product specification, then select the appropriate code according to different symbols in the table.

LED Lamp Specifications

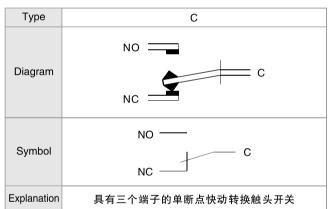
Lamp Type	Bi-directional LED lamp (AC DC Universal)				
	AC/DC6V	AC/DC12V	AC/DC110V	amp E	
Rated Voltage	AC/DC24V	AC/DC36V	AC/DC220V	qui	
Rated Current	About 15m	nA	about 3mA	Equivalent	
Color	R G Y O B W				
Life	50000 hours (reference value)				



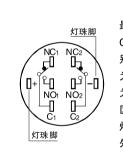
AC-DC Universal LED lamp, terminal differentiate between positive and negative; lamp beads built-in protection resistors, no external.

Note: For unidirectional DC LED lamp can be customized; other voltage specifications can request custom.

Switch Structure Explanation



Pin Description



最多可配置两组开关。

C1、NO1、NC1和C2、NO2、NC2分别为一组开关; C脚为公用脚, NO脚为常开脚, NC脚为常闭脚; +、-脚为灯珠引脚, 常规灯珠配置无正负极区分。

灯珠与开关相对独立,可通过开关或 外围电路控制灯珠状态。

Installation Effect Preview

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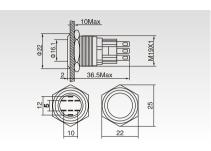
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HBS1-AGQ

● HBS1-AGQ-□■/◎/☆



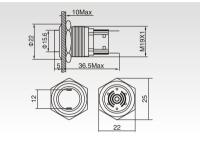
- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Protection Degree: IP67,IK09



● HBS1-AGQ-SM/▲



- Mounting Hole Size: Φ19mm
- Rated Voltage: DC12V/DC24VAC 110V/AC220V
- Pronunciation Type: Buzzing/ Flash Buzzer
- Sound Intensity: =80dB(1m)
- The Crust Material: Stainless Steel
- Protection Degree : IP50,IK04

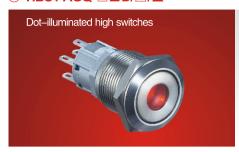


Cnari	fications	UP04 400 5 -	UD04_A00_ = /A	
	fications	HBS1–AGQ–□■	HBS1-AGQ-■/▲	
	ront Shape	Flat Round	平圆形孔状	
Termi	nal Type	Pin Terminal(2.8 × 0.5mm)	Pin Terminal(2.8 × 0.5mm)	
Switch	n Type	C(Single breakpoint snap-action changeover contacts)		
Switch	n Specifications	Ith:5A Ui:250VAC		
Conta	ct Resistance	≤50mΩ		
Insula	tion Resistance	≥1000MΩ		
Dielec	ctric Strength	2000VAC	2000VAC	
Opera	ating Temperature	–20°C ~ +55°C	–20°C ~ +55 °C	
Mecha	anical Life	>1,000,000 times		
Electr	ical Life	>50,000 times		
Panel	Thickness	1 ~ 10mm	1 ~ 10mm	
Torqu	е	5 ~ 14Nm	5 ~ 14Nm	
Opera	ating Pressure	3~5N		
Opera	ating Stroke	About 3.1mm		
Protec	ction Degree	IP67,IK09	IP50,IK04	
	Contact	Silver Alloy		
<	Button	Stainless Steel	Stainless Steel	
Material	Case	Stainless Steel	Stainless Steel	
<u> 22</u>	Base	PBT	PA	
	RoHS	Can be made to order	Can be made to order	
Lamp	Lamp Type		Buzzing/ Flash Buzzer	
np P	Rated Voltage		DC12V/DC24V	
Parameter	Color		R G Y O B W	
eter	Life		≥80dB (1m)	

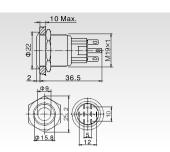
HBAN 红波数较铝 HONGBO Push Button

HBS1-AGQ

→ HBS1-AGQ-□■D/△/▲



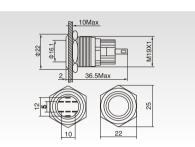
- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Iluminated Type: Dot
- Protection Degree: IP67,IK09



→ HBS1-AGQ-□■E/△/▲



- Mounting Hole Size : Φ19mm
- Switch Rating: 5A/250VAC
- Ontact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Iluminated Type: Ring
- Protection Degree: IP67,IK09

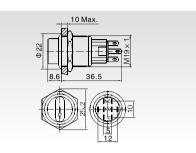


Spec	ifications	HBS1-AGQ-□■D/△/▲	HBS1-AGQ-□■E/△/▲	
The I	Front Shape	Flat Round	Flat Round	
Term	inal Type	Pin Terminal(2.8 × 0.5mm)	Pin Terminal(2.8 × 0.5mm)	
Switc	ch Type	C(Single breakpoint snap-action changeover contacts)	C(Single breakpoint snap-action changeover contacts)	
Switc	ch Specifications	Ith:5A Ui:250VAC	Ith:5A Ui:250VAC	
Cont	act Resistance	≤50mΩ	≤50 m Ω	
Insul	ation Resistance	≥1000MΩ	≥1000MΩ	
Diele	ctric Strength	2000VAC	2000 VAC	
Oper	ating Temperature	–20°C ~ +55°C	–20℃ ~ +55℃	
Mech	nanical Life	>1,000,000 times	>1,000,000 times	
Elect	rical Life	>50,000 times	>50,000 times	
Pane	l Thickness	1 ~ 10mm	1 ~ 10mm	
Torq	ue	5 ~ 14Nm	5 ~ 14Nm	
Oper	ating Pressure	3~5N	3~5N	
Oper	ating Stroke	About 3.1mm	About 3.1mm	
Prote	ection Degree	IP67,IK09	IP67,IK09	
	Contact	Silver Alloy	Silver Alloy	
S	Button	Stainless Steel	Stainless Steel	
Material	Case	Stainless Steel	Stainless Steel	
<u>a</u>	Base	PBT	PBT	
	RoHS	Can be made to order	Can be made to order	
Lan	Lamp Type	Dot-illuminated (LED)	Ring-illuminated (LED)	
Lamp Parameter	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V/12V/24V/110V/220V	
aram	Color	R G Y O B W	R G Y O B W	
eter	Life	50000 hours	50000 hours	

HBS1-AGQ



- Mounting Hole Size: Φ19mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operating Position: Position Two/ Position Three
- Operation Type: Keep Momentary
- The Crust Material: Stainless Steel
- Illuminated Type: Arrow Indicate
- Protection Degree: IP65



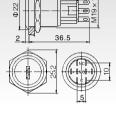
● HBS1-AGQ-□Y/◆●



- Mounting Hole Size: Φ19mm
- Switch Rating: 5A/250VAC

The Crust Material: Stainless Steel

- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Position Two: Keep/Momentary
 - Position Three: Keep



Speci	ifications	HBS1-AGQ-□X/◆●/△/▲	HBS1-AGQ-□Y/◆●	
The F	ront Shape	Knob	Key–lock	
Termi	inal Type	Pin Terminal(2.8 × 0.5mm)	Pin Terminal(2.8 × 0.5mm)	
Switc	h Type	Structure III	Structure III	
Switch	h Specifications	Ith:5AUi:250VAC	Ith:5AUi:250VAC	
Conta	act Resistance	≤50mΩ	≤50mΩ	
Insula	ation Resistance	≥1000MΩ	≥1000MΩ	
Dieled	ctric Strength	2000VAC	2000VAC	
Opera	ating Temperature	–20°C ~ +55°C	–20℃ ~ +55 ℃	
Mech	anical Life	>500,000 times	>500,000 times	
Electr	rical Life	>50,000 times	>50,000 times	
Panel	l Thickness	1 ~ 10mm	1 ~ 10mm	
Torqu	ıe	5 ~ 14Nm	5 ~ 14Nm	
Opera	ating Pressure			
Opera	ating Stroke			
Prote	ction Degree	IP65	——	
	Contact	Silver Cadmium Oxide	Silver Cadmium Oxide	
ă a	Button	Stainless Steel	Stainless Steel	
Material	Case	Stainless Steel	Stainless Steel	
_	Base	PBT	PBT	
Lan	Lamp Type	Arrow		
Lamp Parameter	Rated Voltage	R G O B W		
aram	Color	1.8V、2.8V、6V、2V、24V、110V、220V		
eter	Life	50000 hours		

HBAN 红波较银 HONGBO Push Button

HBGQ22、HBGQ25系列

Model Explanation

HBGQ-	- * -	- 🗆	I	♦	/ Δ	1 🔺
Series Number	Modified Code 22: \$ 22mm 25: \$ 25mm	Contact Configuration 11 1NO1NC 22 2NO2NC	Operation Type Z Latching Push Button No letter means momentary push button	Lamp Type D Dot E Ring	Color of Lamp and Colorized Button R Red G Green Y Yellow O Orange B Blue W White	Lamp Voltage AC/DC 6V AC/DC 12V AC/DC 24V AC/DC 110V AC/DC 220V Other voltage can be made to order

Note: Please carefully read the product specification, then select the appropriate code according to different symbols in the table.

LED Lamp Specifications

Lamp Type	Bi-directional LED lamp (AC DC Universal)				
	AC/DC6V	AC/DC12V	AC/DC110V	amp E	
Rated Voltage	AC/DC24V	AC/DC36V	AC/DC220V	qui	
Rated Current	About 15mA about 3mA			Equivalent	
Color	R G Y O B W				
Life	50000 hours (reference value)				

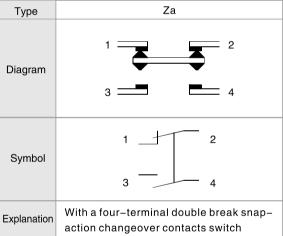


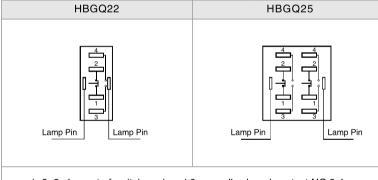
AC-DC Universal LED lamp, terminal differentiate between positive and negative; lamp beads built-in protection resistors, no external.

Note: For unidirectional DC LED lamp can be customized; other voltage specifications can request custom.

Switch Structure ExplanationPin Description

HBGQ22





1, 2, 3, 4, a set of switches; 1 and 2 normally closed contact NC 3,4 normally open contact Number

Relatively independent of lamp beads and switch through the switch or the external circuit to control the status of the lamp beads.

Installation Effect Preview



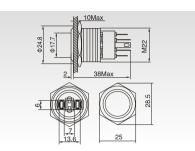
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HBGQ22

● HBGQ22-11 ■



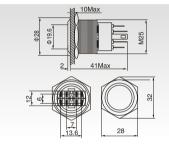
- Mounting Hole Size :
 Ф22mm
- Switch Rating: 5A/250VAC
- © Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Protection Degree: IP65,IK10



● HBGQ25-□



- Mounting Hole Size : Φ25mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Protection Degree: IP65,IK10



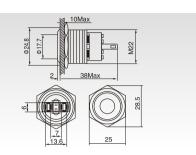
Specifi	cations	HBGQ22-11 ■	HBGQ25-□■	
The Fr	ont Shape	Flat Round	Flat Round	
Termin	nal Type	Pin Terminal(2.8 × 0.5mm)	Pin Terminal(2.8 × 0.5mm)	
Switch	Туре	Za (Double breakpoint snap-action changeover contacts)	Za (Double breakpoint snap-action changeover contacts)	
Switch	Specifications	Ith:5A Ui:250VAC	Ith:5A Ui:250VAC	
Contac	ct Resistance	≤50 m Ω	≤50mΩ	
Insulat	ion Resistance	≥1000MΩ	≥1000M Ω	
Dielect	tric Strength	2000 VAC	2000VAC	
Operat	ting Temperature	–20°C ~ +55°C	–20°C ~ +55°C	
Mecha	nical Life	>1,000,000 times	>1,000,000 times	
Electric	cal Life	>50,000 times	>50,000 times	
Panel ⁻	Thickness	1 ~ 6mm	1 ~ 6mm	
Torque	9	5 ~ 14Nm	5 ~ 14Nm	
Operat	ting Pressure	About 5.5N	5.5~7N	
Operat	ting Stroke	About 2.5mm	About 2.8mm	
Protect	tion Degree	IP65,IK10	IP65,IK10	
	Contact	Silver Alloy	Silver Alloy	
<	Button	Stainless Steel	Stainless Steel	
Material	Case	Stainless Steel	Stainless Steel	
<u>a</u>	Base	PA	PA	
	RoHS	Can be made to order	Can be made to order	

红波较银 HONGBO Push Button

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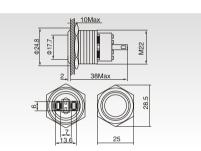


- Mounting Hole Size : Φ22mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Illuminated Type: Dot
- Protection Degree: IP65,IK10





- Mounting Hole Size : Φ22mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Illuminated Type: Ring
- Protection Degree: IP65,IK10



Speci	ifications	HBGQ22-11 ■ D/△/▲	HBGQ22-11 ■ E/△/▲	
The F	ront Shape	Flat Round	Flat Round	
Termi	inal Type	Pin Terminal(2.8 × 0.5mm)	Pin Terminal(2.8 × 0.5mm)	
Switc	h Type	ZA (Double breakpoint snap-action changeover contacts)	ZA (Double breakpoint snap-action changeover contacts)	
Switc	h Specifications	Ith:5A Ui:250VAC	Ith:5A Ui:250VAC	
Conta	act Resistance	≤50mΩ	≤50m Ω	
Insula	ation Resistance	≥1000MΩ	≥1000MΩ	
Diele	ctric Strength	2000VAC	2000VAC	
Opera	ating Temperature	–20°C ~ +55°C	–20℃ ~ +55 ℃	
Mech	anical Life	>1,000,000 times	>1,000,000 times	
Electr	rical Life	>50,000 times	>50,000 times	
Panel Thickness		1 ~ 8mm	1 ~ 8m m	
Torque		5 ~ 14Nm	5 ~ 14Nm	
Opera	ating Pressure	About 5.5N	About 5.5N	
Opera	ating Stroke	About 2.5mm	About 2.5mm	
Prote	ction Degree	IP65,IK10	IP65, I K10	
	Contact	Silver Alloy	Silver Alloy	
~	Button	Stainless Steel	Stainless Steel	
Material	Case	Stainless Steel	Stainless Steel	
<u>ä</u>	Base	PA	PA	
	RoHS	Can be made to order	Can be made to order	
Lamp Parameter	Lamp Type	Dot-illuminated (LED)	Ring-illuminated (LED)	
	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V/12V/24V/110V/220V	
	Color	R G Y O B W	R G Y O B W	
eter	Life	50000 hours	50000 hours	

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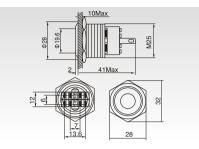




● HBGQ25-□ ■ D/△/▲



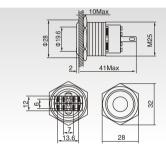
- Mounting Hole Size : Φ25mm
- Switch Rating: 5A/250VAC
- Ontact Configuration: 1NO1NC/2NO2NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Illuminated Type: Dot
- Protection Degree: IP65,IK10



● HBGQ25-□ ■ E/△/▲



- Mounting Hole Size : Φ25mm
- Switch Rating: 5A/250VAC
- Contact Configuration: 1NO1NC
- Operation Type: Momentary, Latching
- The Crust Material: Stainless Steel
- Illuminated Type: Ring
- Protection Degree: IP65,IK10



Specifications HBGQ25-□D/∆/▲■ Flat Round Flat R					
Terminal Type Pin Terminal (2.8 × 0.5mm) Pin Terminal (2.8 × 0.5mm) Switch Type ZA(Double breakpoint snap-action changeover contacts) Switch Type Ith:5A Ui:250VAC Switch Specifications Ith:5A Ui:250VAC Contact Resistance $\leq 50m\Omega$ Insulation Resistance $\geq 1000M\Omega$ Dielectric Strength $2000VAC$ Operating Temperature $-20^{\circ}C \sim +55^{\circ}C$ Mechanical Life $>1,000,000$ times $> 100,000$ times $>50,000$ times Panel Thickness $1 \sim 10mm$ Torque $5 \sim 14Nm$ Operating Pressure $5.5 \sim 7N$ Operating Stroke About 2.8mm Protection Degree IP65,IK10 IP65,IK10 IP65,IK10 Button Stainless Steel Case Stainless Steel Base PA ROHS Can be made to order Lamp Type Dot-illuminated (LED) Rot Can be made to order Roy / 12V / 24V / 110V / 220V	Specifications		HBGQ25-□D/△/ ▲ ■	HBGQ25-□E/△/▲■	
Switch Type ZA (Double breakpoint snap-action changeover contacts) ZA (Double breakpoint snap-action changeover contacts) Switch Specifications Ith:5A Ui:250VAC Ith:5A Ui:250VAC Contact Resistance ≤ 50m Ω ≤ 50m Ω Insulation Resistance ≥ 1000MΩ ≥ 1000MΩ Dielectric Strength 2000VAC 2000VAC Operating Temperature −20°C ~ +55°C −20°C ~ +55°C Mechanical Life >1,000,000 times >1,000,000 times Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Insuck Life Patch Voltace 6V/12V/24V/110V/220V <td colspan="2">The Front Shape</td> <td>Flat Round</td> <td>Flat Round</td> <td></td>	The Front Shape		Flat Round	Flat Round	
Switch Specifications Ith:5A Ui:250VAC Ith:5A Ui:250VAC Contact Resistance ≤ 50m Ω ≤ 50m Ω Insulation Resistance ≥ 1000M Ω ≥ 1000M Ω Dielectric Strength 2000 VAC 2000 VAC Operating Temperature −20 ℃ ~ +55 ℃ −20 ℃ ~ +55 ℃ Mechanical Life >1,000,000 times >1,000,000 times Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5 ~ 7N 5.5 ~ 7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Image: Illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V / 12V / 24V / 110V / 220V	Terminal Type		Pin Terminal(2.8 × 0.5mm)	Pin Terminal(2.8 × 0.5mm)	
Contact Resistance ≤50m Ω ≤50m Ω Insulation Resistance ≥1000MΩ ≥1000MΩ Dielectric Strength 2000 VAC 2000 VAC Operating Temperature −20 °C ~ +55 °C −20 °C ~ +55 °C Mechanical Life >1,000,000 times >1,000,000 times Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Button Stainless Steel Stainless Steel Button Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V/12V/24V/110V/220V 6V/12V/24V/110V/220V	Switch Type		ZA(Double breakpoint snap-action changeover contacts)	ZA(Double breakpoint snap-action changeover contacts)	
Insulation Resistance ≥1000 MΩ ≥1000 MΩ ≥1000 MΩ Dielectric Strength 2000 VAC 2000 VAC Operating Temperature −20 ℃ ~ +55 ℃ −20 ℃ ~ +55 ℃ Mechanical Life >1,000,000 times >1,000,000 times Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10 mm 1 ~ 10 mm Torque 5 ~ 14 Nm 5 ~ 14 Nm Operating Pressure 5.5 ~ 7N 5.5 ~ 7N Operating Stroke About 2.8 mm About 2.8 mm Protection Degree IP65,IK10 IP65,IK10 Filter Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Pated Veltage 6V/12V/24V/110V/220V Filter Alloy Filter Alloy Filter Alloy Filter Alloy Filter Alloy Filter Alloy Fi	Switc	h Specifications	Ith:5A Ui:250VAC	Ith:5A Ui:250VAC	
Dielectric Strength 2000 VAC 2000 VAC Operating Temperature −20 °C ~ +55 °C −20 °C ~ +55 °C Mechanical Life >1,000,000 times >1,000,000 times Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Base PA PA PA PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED)	Contact Resistance		≤50mΩ	≤50m Ω	
Operating Temperature −20 ℃ ~ +55 ℃ −20 ℃ ~ +55 ℃ Mechanical Life >1,000,000 times >1,000,000 times Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V / 12V / 24V / 110V / 220V 6V / 12V / 24V / 110V / 220V			≥1000MΩ	≥1000MΩ	
Mechanical Life >1,000,000 times >1,000,000 times Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA ROHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V/12V/24V/110V/220V 6V/12V/24V/110V/220V	Diele	ctric Strength	2000VAC	2000VAC	
Electrical Life >50,000 times >50,000 times Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA ROHS Can be made to order Bated Voltage 6V/12V/24V/110V/220V	Opera	ating Temperature	–20°C ~ +55°C	–20°C ~ +55°C	
Panel Thickness 1 ~ 10mm 1 ~ 10mm Torque 5 ~ 14Nm 5 ~ 14Nm Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Earp Type Dot-illuminated (LED) Pated Woltage 6V / 12V / 24V / 110V / 220V	Mech	anical Life	>1,000,000 times	>1,000,000 times	
Torque	Electr	rical Life	>50,000 times	>50,000 times	
Operating Pressure 5.5~7N 5.5~7N Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V / 12V / 24V / 110V / 220V 6V / 12V / 24V / 110V / 220V	Panel Thickness		1 ~ 10mm	1 ~ 10mm	
Operating Stroke About 2.8mm About 2.8mm Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Pated Voltage 6V/12V/24V/110V/220V 6V/12V/24V/110V/220V	Torque		5 ~ 14Nm	5 ~ 14Nm	
Protection Degree IP65,IK10 IP65,IK10 Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Lamp Type Dot-illuminated (LED) Pated Voltage 6V / 12V / 24V / 110V / 220V	Operating Pressure		5.5~7N	5.5~7N	
Contact Silver Alloy Silver Alloy Button Stainless Steel Stainless Steel Case Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Rottod Voltage 6V / 12V / 24V / 110V / 220V	Opera	ating Stroke	About 2.8mm	About 2.8mm	
Button Stainless Steel Stainless Steel Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V / 12V / 24V / 110V / 220V	Protection Degree		IP65,IK10	IP65,IK10	
Case Stainless Steel Stainless Steel Base PA PA RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V / 12V / 24V / 110V / 220V		Contact	Silver Alloy	Silver Alloy	
RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Roted Voltage 6V / 12V / 24V / 110V / 220V 6V / 12V / 24V / 110V / 220V	<	Button	Stainless Steel	Stainless Steel	
RoHS Can be made to order Can be made to order Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Roted Voltage 6V / 12V / 24V / 110V / 220V 6V / 12V / 24V / 110V / 220V	later	Case	Stainless Steel	Stainless Steel	
Lamp Type Dot-illuminated (LED) Ring-illuminated (LED) Pated Voltage 6V / 12V / 24V / 110V / 220V 6V / 12V / 24V / 110V / 220V	<u>ä</u>	Base	PA	PA	
Bated Voltage 6V / 12V / 24V / 110V / 220V 6V / 12V / 24V / 110V / 220V		RoHS	Can be made to order	Can be made to order	
Rated Voltage 6V / 12V / 24V / 110V / 220V 6V / 12V / 24V / 110V / 220V	Lar	Lamp Type	Dot-illuminated (LED)	Ring-illuminated (LED)	
Color	np P	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V/12V/24V/110V/220V	
© Life 50000 hours 50000 hours	aram	Color	R G Y O B W	R G Y O B W	
	eter	Life	50000 hours	50000 hours	

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IP Protection Degree Explanation

The	The first digital (to prevent the entry of solid foreign objects)			Second digital (to prevent water harmful effects)			
IP	Requirement	Example	IP	Briefly	Example	Waterproof	
0	Unprotected	*	0	Unprotected	No	Unprotected	
1	50mm diameter spherical objects may not enter, and not touch the dangerous		1	Prevent the vertically falling drops of water to allow a small amount of water to enter.	96	Vertical drips of water	
	parts. Such as the arm. Diameter 12.5mm spherical	50 (7)	2	Prevent the shell in the range of 15° tilted vertically falling drops of water to allow a small amount of water to enter.	SE .	And the vertical plane of 15° drips	
2	objects must not enter, hinged test means and dangerous parts have sufficient clearance. Such as a finger.		3	Prevent vertical to 60 ° range of watering, allow a small amount of water to enter.		A small amount of water spray	
3	Allowed to enter the trial with 2.5mm in diameter. Such as tools.	□	4	Splashing water to prevent any direction, allowing a small amount of water to enter.	38	Any direction of the splashing	
4	1mm in diameter test with will not be allowed to enter. Such as metal wire.		5	To prevent water spray, allowing a small amount of water to enter.	\$ \$ \$ \$	Water spray in any direction	
	Allow limited dust to enter (no harmful		6	Prevent strong water spray, allowing a small amount of water to enter.	%	Water spray in any direction	
5	deposits).		7	Prevent the impact of 15mm ~ 1m deep soaking.	-15cm-1m]	Short-term flooding	
6	Completely prevent dust from entering.		8	Prevent long-term im mersion in water under pressure.	-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	Continuous im mersion in water	

Orust Protection Degree Explanation

Protection Degree	Hammer Quality A	H: The Hammer initial height H	Hit capacity	Hit diagram	Explanation
IK01	150g	10cm	0.15J		
IK02	200g	10cm	0.20J	A	The same parts of the shell by
IK03	250g	15cm	0.35J		three times the
IK04	250g	20cm	0.50J		energy of the appropriate level
IK05	350g	20cm	0.70J		of mechanical shock, do not
IK06	250g	40cm	1J		make the switch
IK07	500g	40cm	2J		to be adversely affected.
IK08	1.25Kg	40cm	5J	1 V	
IK09	2.50Kg	40cm	10J		
IK10	5.0Kg	40cm	20J		

Note: Meet the standards GB/T 20138-2006, IEC 62262: 2002

The experimental standard: GB/T2423.55-2006, IEC60068-2-75: 1997

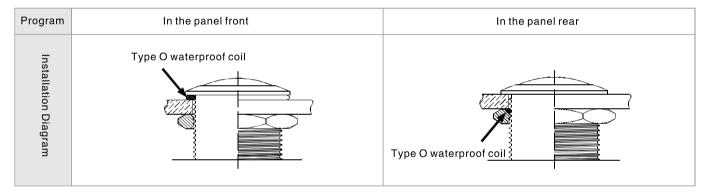
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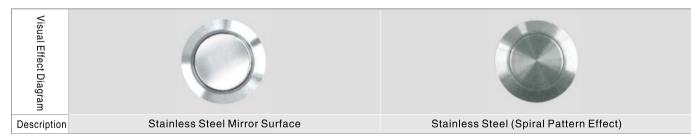
Labeling Program

Product Model	Maximum identity range	Identification Sample	Effect Diagram	
HBGQ16	Ф10 mm			
HBGQ16-E	Ф8 mm			
HBGQ19	Ф13 mm	(8)(E)(#)(◄)		
HBS2GQ	Ф10 mm			
HBS2GQ-E	Ф8.5 mm			
HBS1GQ	Ф13 mm		通话	
HBS1GQ-E	Ф10 mm	(Stop) (Start) (启动) (冷水 Cold)		
HBS1-AGQ	Ф13.5 mm	Ground (Cold)		
HBS1-AGQ-E	Ф11.5 mm	More icon symbols see P39.		
HBGQ22	Ф15 mm	More icon symbols see F 39.		
HBGQ22-E	Ф12 mm			
HBGQ25	Ф22.5 mm	Note: Using a variety of advanced technology, tailor-made for your clear and wear text, graphics, logos, etc		
HBGQ25-E	Ф13 mm			

Waterproof coil installation method



Visual contrast of the crust material



Note: The crust can be customized processing of color (crust material will be diverted to use aluminum).

Some products Welding Note

Any incorrect welding operation may lead to product plastic deformation, the switch is bad contact. Users in the use of pin type button switch, signal light, the phenomenon of improper welding cause damage occurred, therefore I would urge users in the terminal operation is important to note the following points:

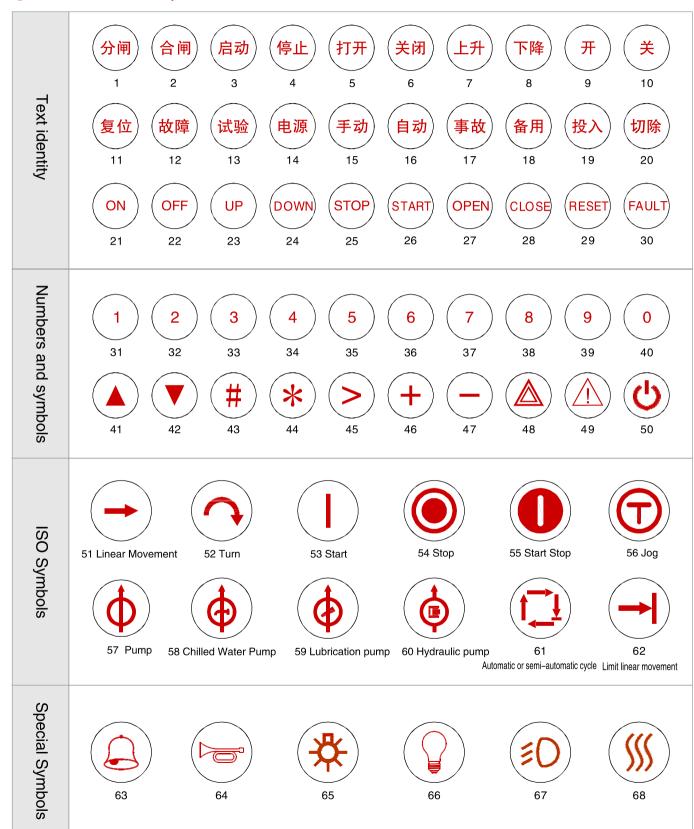
- Select the appropriate electric iron, to speed up the welding speed, it is recommended to use 20W soldering iron within 3 seconds to complete welding.
- The amount of flux must be welded to make the switch to pin down.
- Maximize the use of the plug wire terminal connection, to avoid the welded connection.

Ordering Information

- Control "model explanation" when ordering, please fill out the model code to specify the content and products.
- All products can be customized aluminum casing, the surface color processing (custom color cover).
- The level of protection for all products is limited to the front of the panel.

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• Identifies examples



Note: The above symbols need to be customized.

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