



ZHEJIANG HANSHANG ELECTRIC CO., LTD.



M SERIES

M series push button switch

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

Waterproof 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.



shock-resistant



Waterproof and dustproof



Safe and practical



Quality assurance

Description



The M series is an anti-vandal sealed push button switch that offers the industry standard ring illuminated version in 16mm,19mm,22mm diameter. The max current can be reach to 20A.The push button switches use a scratch resistant actuator and housings are made of robust stainless steel particularly suitable for use in equipment subjected to harsh conditions or applications that require protection from vandalism.

The M series push buttons meet the seal protection and impact resistance ratings of IP67 hat design to withstand the possible extreme outdoor environmental and may subject to abuse.

Also,the M series comes with a variety of LED colors as illuminated push buttons and various of indicators on the actuator that meet your application needs.

Features&Benefits

- Momentary or Latching version
- IP67 waterproof
- Max.Current: 20A
- Mounting hole size: 16mm,19mm,22mm
- Various colors of LED illuminate indicator
- Choices of push button with symbol on spot, ring or power logo

Applications

- Marine
- Control Panels including Car park and traffic light
- Industrial Instruments
- Communication equipment
- Alarm, safety and security systems
- Lifts / Escalator

Specifications

Product specifications	HJ □ - □ / △ / ● / ☆	Mechanical life	More than 1,000,000 times
Head shape	spherical/flat round/ high flat round	Electrical life	More than 40,000 times (20A) Over 60,000 times (15A) More than 200,000 times (10A)
Bottom configuration	Wiring pins (4.8×4.8×0.8mm)	Panel thickness	1~5mm
Switch specifications	20A	Nut torque	5~14Nm
Contact resistance	≤ 50mΩ	Operating pressure	About 4N
Insulation resistance	≥ 1000MΩ	Operation travel	About 1.5mm
Dielectric strength	2500VAC	Materials	Pedestal PA
Ambient temperature	-20℃ ~+80℃		Housing Stainless steel
Protection level	IP67 IK08		Button Stainless steel
Operation mode	Momentary/Latching	Contact point	Silver alloy contact
LED specification	Built-in lamp beads		
	LED color	 Three or two colors can be customized	
	Ue Rated voltage Ue	3V/6V/12V/24V/36V/48V/110V/220V	
	Ie Rated current Ie	3 to 48V About 15mA 110 to 220V about 2mA	
	LED life	40000 hours	

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

Model description

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▲ / ● /

/

◆ / ◇ / ★ / △

Business code	Housing material		Mounting hole size		Serial number	Contact structure		Operation mode		With LED		Head shape		Wiring type		LED color		LED voltage								
H	JG	stainless steel	16	Φ16mm	M	10	1NO	Z	Latching	D	Entire urface	Q	Spherical	S	Welding pins	R	Red	AC/DC 3V								
			19	Φ19mm		11	1NO 1NC									G	Green	AC/DC 6V								
			22	Φ22mm		01	1NC	NO	Momentary	D1	Dot	P	Flat head	Q	Pins	Y	Yellow	AC/DC 12V								
	JU	brass nickel-plated				02	2NC											AC/DC 24V								
						20	2NO											AC/DC 36V								
																		AC/DC 48V								
	JA	aluminum oxidation																AC/DC 110V								
																		AC/DC 220V								

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.

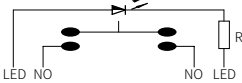
Shell material: brass nickel plating, stainless steel, aluminum oxidation, order please indicate the shell material.

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

Summary

Mounting hole size	Φ16mm、Φ19mm、Φ22mm
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
Protection level	IP67

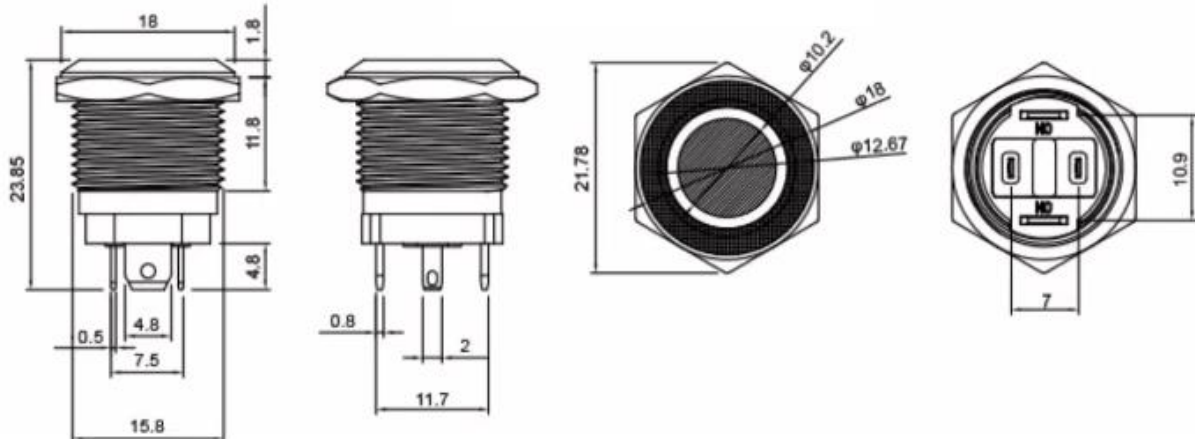
Switch structure description

Type	Schematic diagram	Symbol
M		

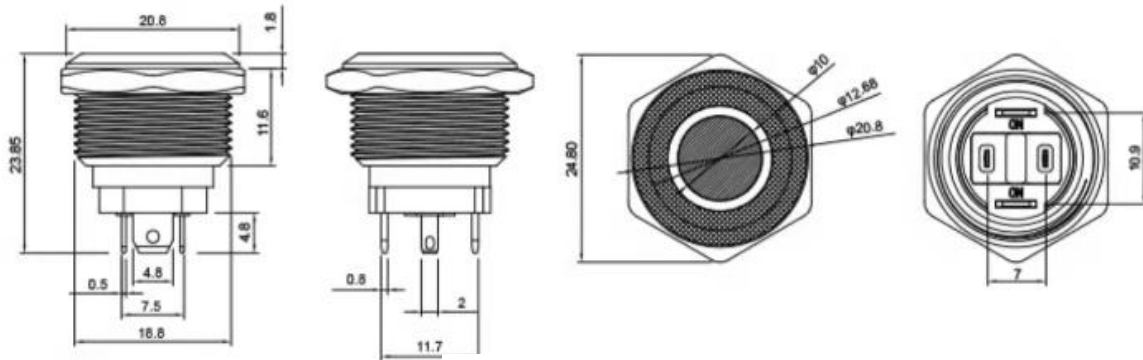
Description: Double break slow action contact switch with two terminals



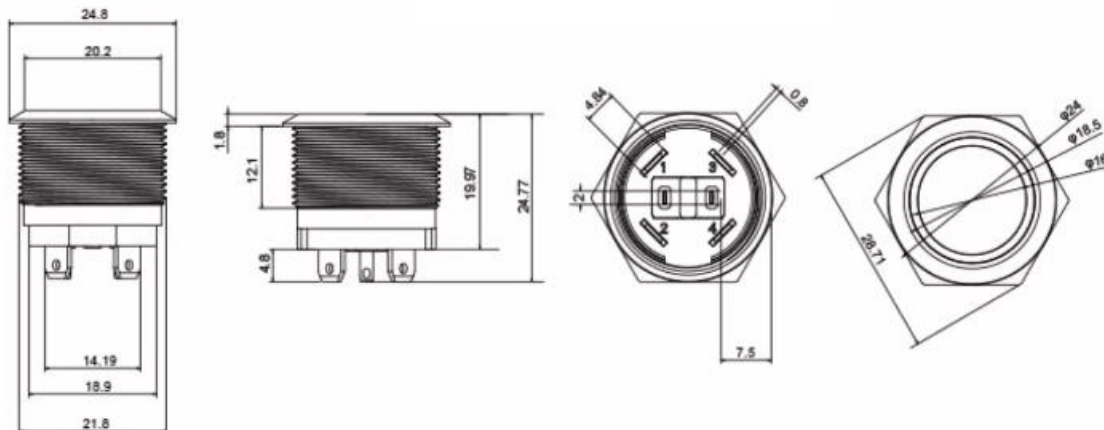
16mm(unit: mm)



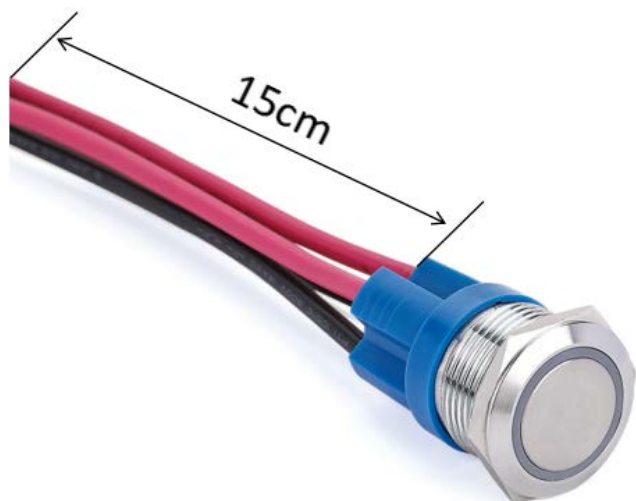
19mm(unit: mm)



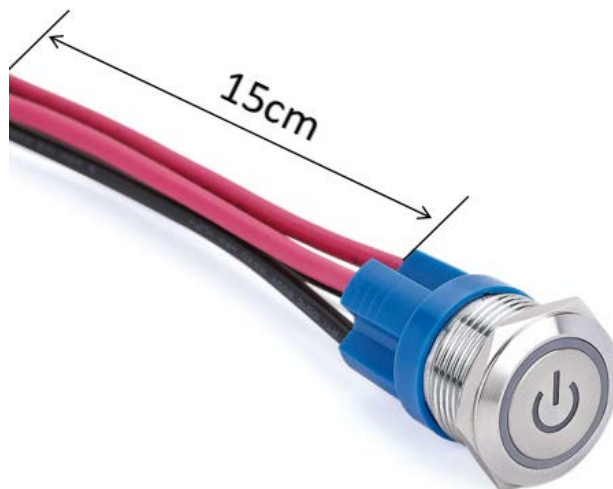
22mm(unit: mm)



With connector with wire harness



Standard length of wire harness is 15cm
Other length can be customized



Standard length of wire harness is 15cm
Other length can be customized

With connector with wire harness which can resettable





Description

The M3 series is an anti-vandal sealed push button switch with glue filling & wires that offers the industry standard ring illuminated version in 16mm, 19mm, 22mm diameter. The max current can be reach to 20A. The push button switches use a scratch resistant actuator and housings are made of robust stainless steel particularly suitable for use in equipment subjected to harsh conditions or applications that require protection from vandalism. Entire assembly component is waterproof.

The M3 series push buttons meet the seal protection and impact resistance ratings of IP68 hat design to withstand the possible extreme outdoor environmental and may subject to abuse.

Also, the M3 series comes with a variety of LED colors as illuminated push buttons and various of indicators on the actuator that meet your application needs.

Features&Benefits

- Momentary or Latching version
- IP68 waterproof, Entire assembly component is waterproof
- Max. Current: 20A
- Single LED color or Dual LED color
- Mounting hole size: 16mm, 19mm, 22mm
- Various colors of LED illuminate indicator
- Choices of push button with symbol on spot, ring or power logo

Applications

- Marine
- Control Panels including Car park and traffic light
- Industrial Instruments

Specifications

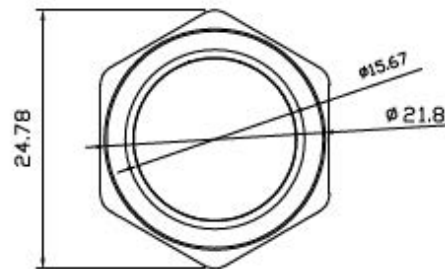
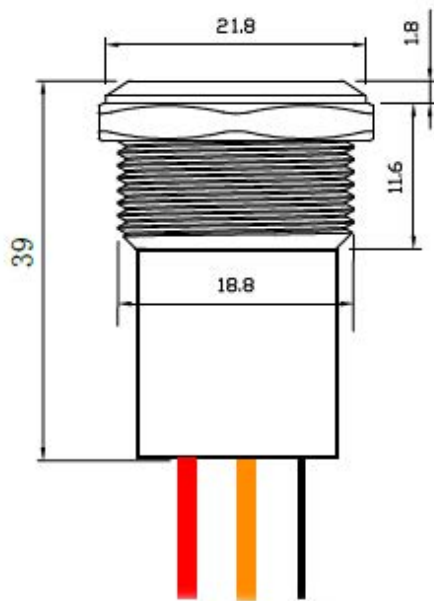
Product specifications	HJS- □ / △ / ● / ☆	Mechanical life	More than 1,000,000 times
Head shape	Flat head	Electrical life	More than 200,000 times
Bottom con igation	Red, orange, black harness, standard 15cm	Panel thickness	1~5mm
Heating current Ith	20A	Nut torque	5~14Nm
Contact resistance	≤ 50mΩ	Operating pressure	About 4N
Insulation resistance	≥ 1000MΩ	Operation travel	About 1.5mm
Dielectric strength	2000VAC	Materials	Pedestal PA
Ambient temperature	-20℃ ~+80℃		Housing Stainless steel
Protection level	IP67 IK08		Button Stainless steel
RoHS	Customizable	Contact point	Silver alloy contact
LED specification	Built-in lamp beads		
	LED color	     Three or two colors can be customized	
	Ue Rated voltage Ue	6V/12V/24V/36V/48V	
	Ie Rated current Ie	3 to 48V About 15mA 110 to 220V about 2mA	
	LED life	40000 hours	

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

Drawing

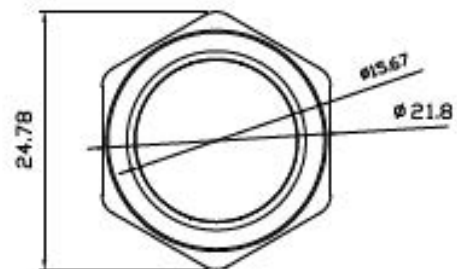
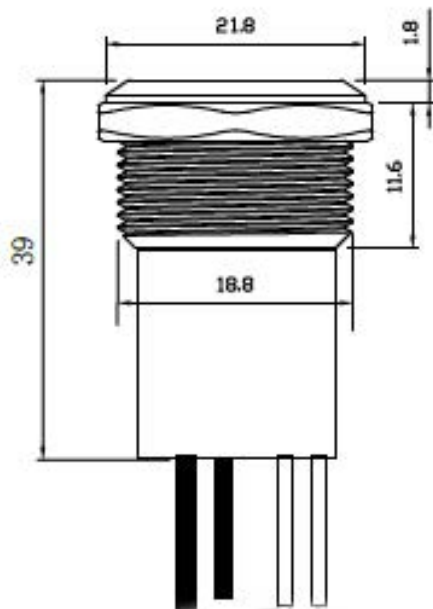
Mounting hole size: 19mm

3 Wires



Standard length of wire harness is 15cm
Other length can be customized

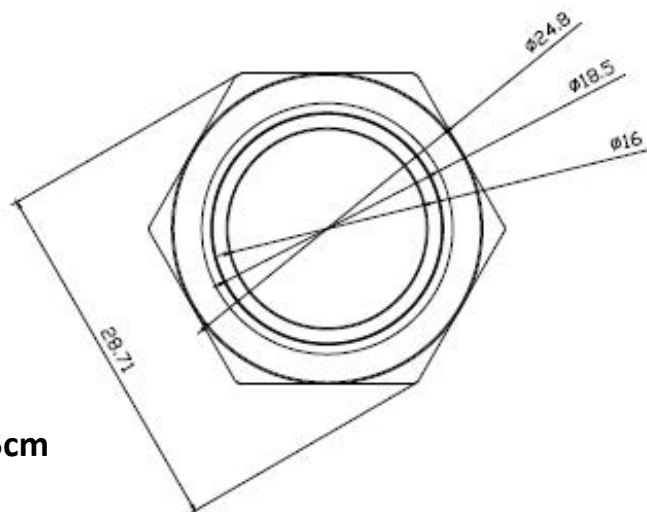
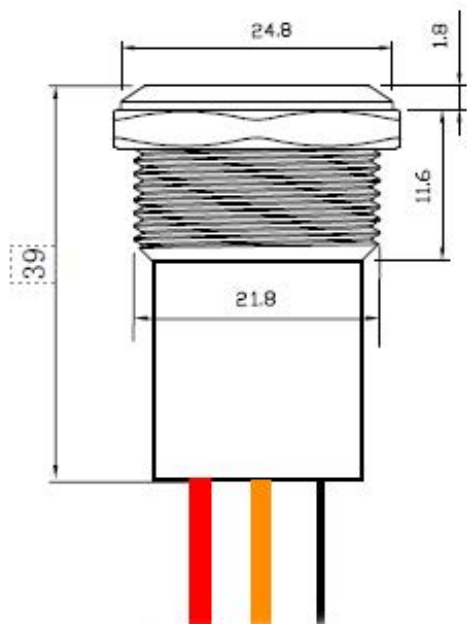
4 Wires



Standard length of wire harness is 15cm
Other length can be customized

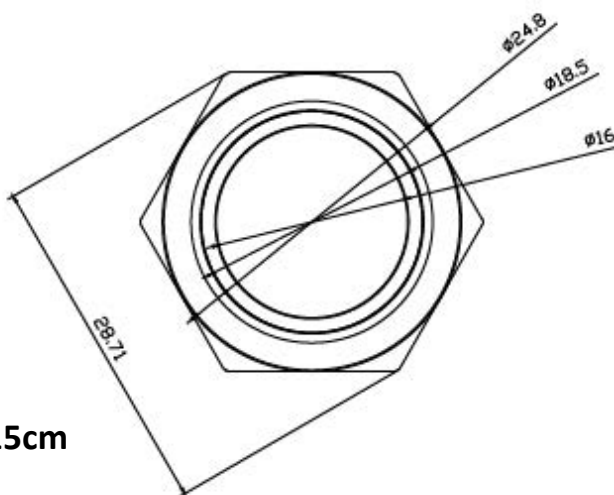
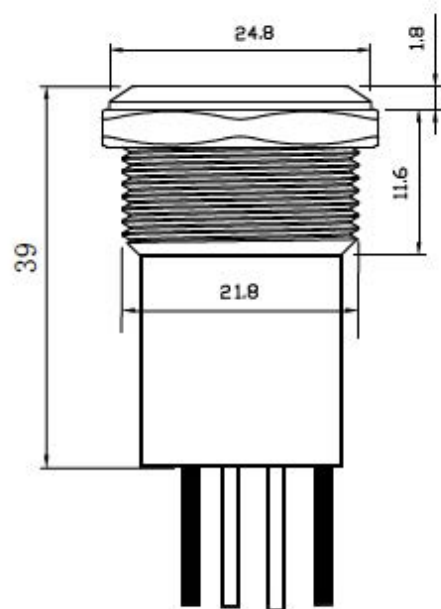
Mounting hole size: 22mm

3 Wires



**Standard length of wire harness is 15cm
Other length can be customized**

4 Wires



**Standard length of wire harness is 15cm
Other length can be customized**



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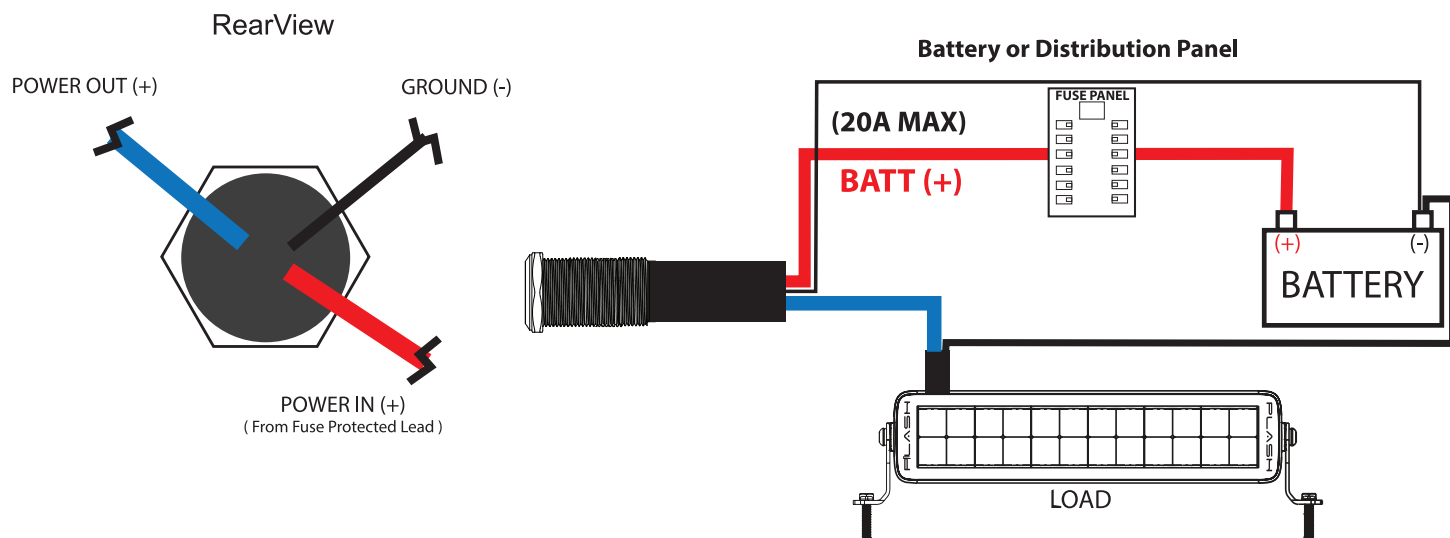
Harsh Environment Switch Single Output

With glue filling&wires

M3 Series Datasheet

WIRING DIAGRAM

SINGLE OUTPUT





Description



The M3-C series is an anti-vandal sealed push button switch with glue filling & wires that offers the industry standard ring illuminated version in 19mm, 22mm diameter. The max current can be reach to 20A. The push button switches use a scratch resistant actuator and housings are made of robust stainless steel particularly suitable for use in equipment subjected to harsh conditions or applications that require protection from vandalism. Entire assembly component is waterproof.

The M3 series push buttons meet the seal protection and impact resistance ratings of IP68 hat design to withstand the possible extreme outdoor environmental and may subject to abuse.

The Resettable Push Button has built in a fuse 3A/5A/7.5A/10A/15A/20A, so it no additional branch circuit protection is needed.

Features&Benefits

- Resettable - built in fuse 3A/5A/7.5A/10A/15A/20A
- Solid state current up to 20A
- Stainless steel 316 - No rusts
- Mounting hole size: 19mm, 22mm
- IP68 waterproof, Entire assembly component is waterproof.

Applications

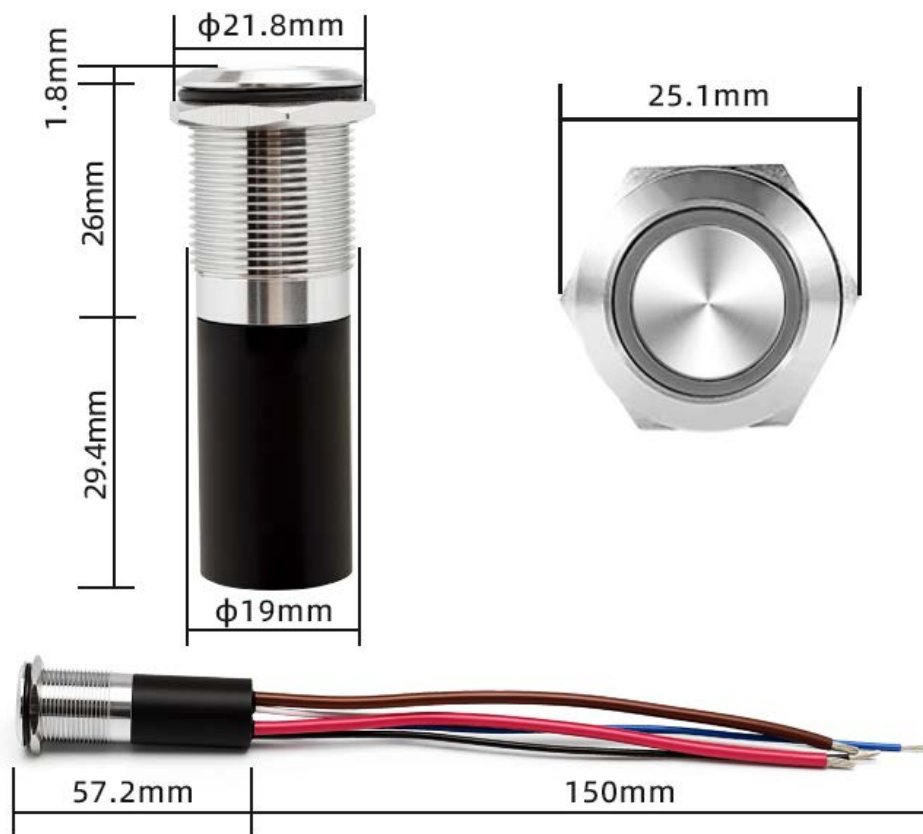
- Marine
- Control Panels including Car park and traffic light
- Industrial Instruments

Specifications

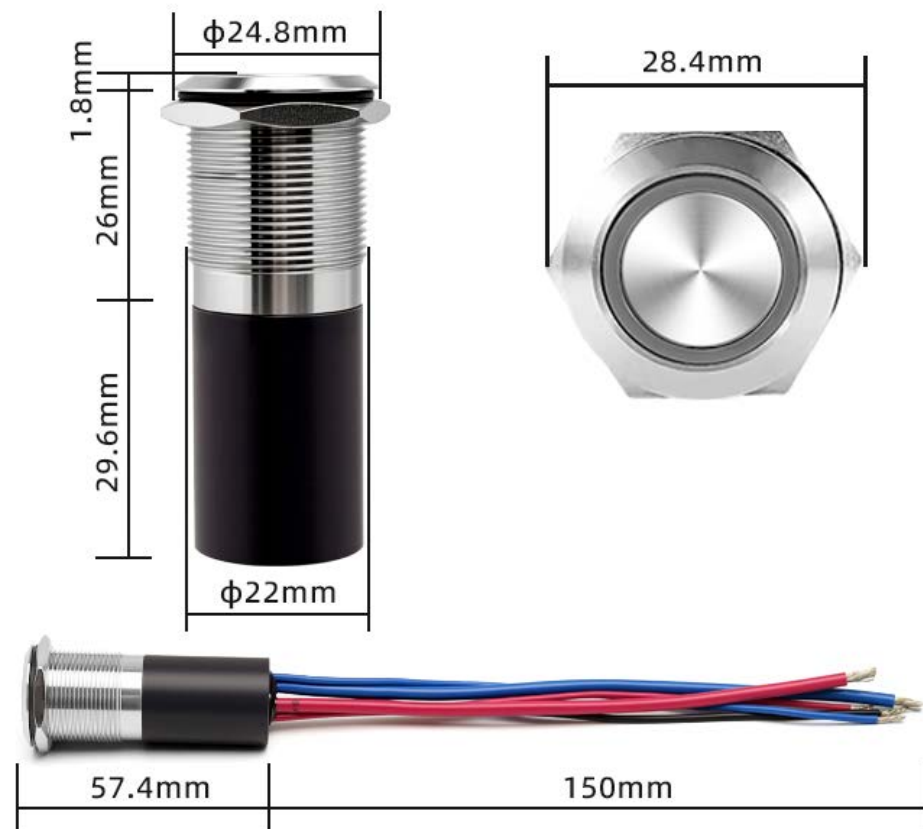
Product specifications	HJS- □ / △ / ● / ☆	Mechanical life	More than 1.,000,000 times
Head shape	Flat head	Electrical life	More than 200,000 times
Bottom con igation	Red, orange, black harness, standard 15cm	Panel thickness	1~5mm
Heating current lth	20A	Nut torque	5~14Nm
Contact resistance	≤ 50mΩ	Operating pressure	About 4N
Insulation resistance	≥ 1000MΩ	Operation travel	About 1.5mm
Dielectric strength	2000VAC	Materials	Pedestal PA
Ambient temperature	-20℃ ~+80℃		Housing Stainless steel
Protection level	IP67 IK08		Button Stainless steel
RoHS	Customizable	Contact point	Silver alloy contact
LED specification	Built-in lamp beads		
	LED color	Three or two colors can be customized	
	Ue Rated voltage Ue	6V/12V/24V/36V/48V	
	Ie Rated current Ie	3 to 48V About 15mA 110 to 220V about 2mA	
	LED life	40000 hours	

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

● 19mm

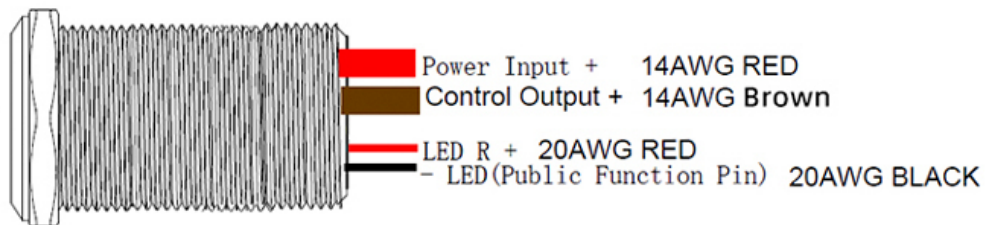


● 22mm

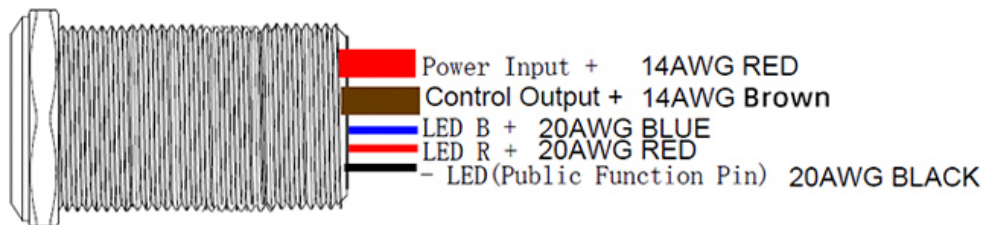


Wiring Diagram

Wiring Method 1: Single Color LED Wiring Diagram



Wiring Method 2: Dual Color LED Wiring Diagram





Description



The M3 FZ series is an anti-vandal sealed push button switch electrical inside with glue filling & wires that offers the industry standard ring illuminated version in 19mm,22mm diameter. The max current can be reach to 10A.The push button switches use a scratch resistant actuator and housings are made of robust stainless steel particularly suitable for use in equipment subjected to harsh conditions or applications that require protection from vandalism. Entire assembly component is waterproof.And it has many types of load control output to meet your requirement.

The M3 FZ series push buttons meet the seal protection and impact resistance ratings of IP67 hat design to withstand the possible extreme outdoor environmental and may subject to abuse.

Also,the M3 FZ series comes with a variety of LED colors as illuminated push buttons and various of indicators on the actuator that meet your application needs.

Features&Benefits

- Dual Output
- Many types of load control output
- IP68 sealed,Entire assembly component is waterproof
- Per circuit current: 5A
- Mounting hole size: 19mm,22mm
- Momentary version
- Various colors of LED illuminate indicator
- Choices of push button with symbol on spot, ring or power logo

Applications

- Marine
- Control Panels including Car park and traffic light
- Industrial Instruments

Specifications

Product specifications	HJS- □ / △ / ● / ☆	Mechanical life		More than 1.,000,000 times
Head shape	Flat head	Electrical life		More than 200,000 times
Bottom con igation	Red, orange, black harness, standard 15cm	Panel thickness		1~5mm
Heating current lth	10A	Nut torque		5~14Nm
Contact resistance	≤ 50mΩ	Operating pressure		About 4N
Insulation resistance	≥ 1000MΩ	Operation travel		About 1.5mm
Dielectric strength	2000VAC	Materials	Pedestal	PA
Ambient temperature	-20℃ ~+80℃		Housing	Stainless steel
Protection level	IP67 IK08		Button	Stainless steel
RoHS	Customizable	Contact point		Silver alloy contact
LED specification	Built-in lamp beads			
	LED color	Three or two colors can be customized		
	Ue Rated voltage Ue	6V/12V/24V/36V/48V		
	Ie Rated current Ie	3 to 48V About 15mA 110 to 220V about 2mA		
	LED life	40000 hours		

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



ZHEJIANG HANSHANG ELECTRIC CO., LTD.

Metal push button switch electrical inside with glue filling&wires M3 FZ Series Datasheet

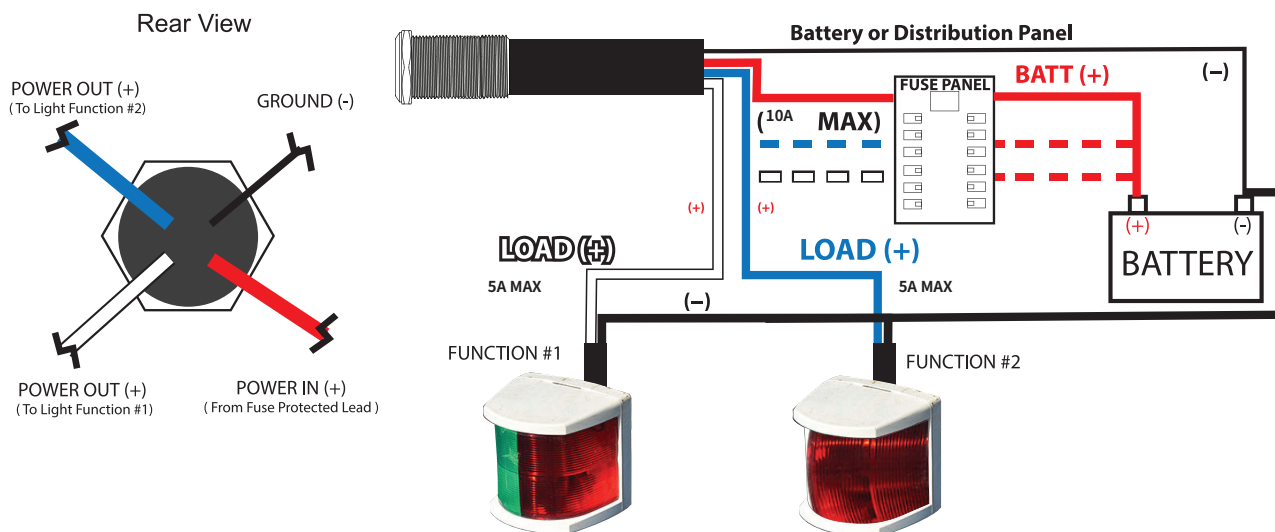
Model description

Business code	Housing material	Mounting hole size	Serial number	Contact structure	Operation mode	With LED	Head shape	Wiring type	LED color	LED voltage
H	JG stainless steel	19 Φ19mm	M	10 1NO	NO Momentary	D1 Dot	Q Spherical	L Harness derivation	R Red	AC/DC 6V
	JU brass nickel-plated	22 Φ22mm				D2 Ring	P Flat head		G Green	AC/DC 12V
	JA aluminum oxidation					D3 Power icon	T High Head		Y Yellow	AC/DC 24V
						D4 Power icon with ring			B Blue	AC/DC 36V
						Customize special patterns, please communicate with sales sta to con irm.				WT White
									RGB RGB	
									RGY RGY	

Control terminal	Load control output form
Positive control FZ+	21 press once, both circuits start to output, press again, the first circuit off, and the second circuit keeps on.
Negative control FZ-	22 press once, the first circuit starts to output, press again, the second circuit starts to output.
	23 press once, the first circuit starts to output, press again, the first circuit keeps on, and the second circuit starts to output.
	31 press once, all three circuits start to output, press again, the first and the second circuit keep on, the third circuit off, press once again, the first circuit keeps on, the second and the third circuit off.
	32 press once, the first circuit start to output, press again, the second circuit start to output, press once again, the third circuit start to output.
	33 press once, the first circuit starts to output, press again, the first circuit keeps on and the second start to output, press once again, the first and the second circuit keep on, and the third circuit starts to output.

WIRING DIAGRAM

DUAL OUTPUT



Customizable Laser Engraved Pattern

