

WLF-10H

Multifunction Joystick

User manual



User notice

► Disclaimer

Warning: Before using this product, please refer to the important safety information in the user manual and review all warnings, limitations and disclaimers.

This product is no substitute for proper training and careful seamanship. Proper installation and proper use of the equipment is the responsibility of the owner to avoid accidents, personal injury or property damage. The user of this product is solely responsible for compliance with maritime safety practices.

The owner is solely responsible for installing and using the equipment in a manner that will not cause accidents, personal injury or property damage. The user of this product is solely responsible for compliance with maritime safety navigation practices.

This document represents the product at the time of release. Ningbo SHANBEI Technology Co., Ltd. reserves the right to change product specifications at any time without prior notice. If you need any further assistance, please contact your nearest dealer.

► Governing language

This Statement, any instruction manuals, user guides and other Product-related information (documentation) may be or have been translated into another language (translation). If there is any conflict between any translated version of the document, the Chinese version of the document will be the official version of the document.

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► Cautions

- 1 Do not place the equipment at will without fixing it, so as to avoid serious damage when it is dropped due to turbulence or other factors during the voyage.
- 2 Do not use any power adapter that is not equipped with this product. Otherwise, the device may not work due to the different circuit design, or the performance may be affected or even damaged.
- 3 Do not disassemble the equipment. If the maintenance engineer is not authorized by the company to disassemble the equipment, the free warranty will be lost.
- 4 During use or cleaning, avoid any liquid or other objects falling into the equipment to avoid circuit damage or short circuit.
- 5 Do not place the device and its accessories in an environment prone to humidity or direct sunlight. Keep the device in a dry environment.
- 6 In case of hardware failure (such as damage to the machine shell or foreign matter falling into the machine, etc.), please stop using the machine immediately and contact the dealer in time.
- 7 The company shall not assume any legal or other liability for any maritime accident, monetary loss or loss of interests that occurs on vessels using this equipment.

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1 Introduction

1.1 Overview

The WLF-10H is a newly designed multifunctional joystick that supports 1, 2, and 3-axis operations. The rotation ranges for the X-axis and Y-axis are 48 degrees each, while the Z-axis can rotate up to 180 degrees (without buttons). It employs non-contact Hall sensors internally, ensuring no wear, smooth operation, and is specifically engineered for various maritime and offshore automation control systems. Constructed from all-aluminum alloy, it features a zero-position lock, individually adjustable damping for each axis, backlighting, and supports customization of the grip and installation panel. It boasts aesthetic design, powerful functionality, and high precision.

Basic Customization Options			(Note: Option 1 is the default)
Direction of motion	1	X	
	2	Y	
	3	X+Y	
	4	X+Y+Z	
Output signal	1	Non-contact Hall sensor	
Built-in switch	1	No	
	2	Yes	
Automatic centering	1	No	
	2	Yes	
Button Integration	1	No	
	2	Yes	
Backlit logo design	1	No	
	2	Yes	

Table1.1

1.2 Product appearance



Figure1.1

1 Introduction



Figure1.2

1.3 Product composition

numbers	Name	quantity
1	Multifunctional Joystick	1
2	16-bit terminal block	1
3	Certificate of Conformity	1
4	Warranty card	1
5	Instruction Manual	1
6	Test Report	1

Table1.2

1.4 Product size drawing

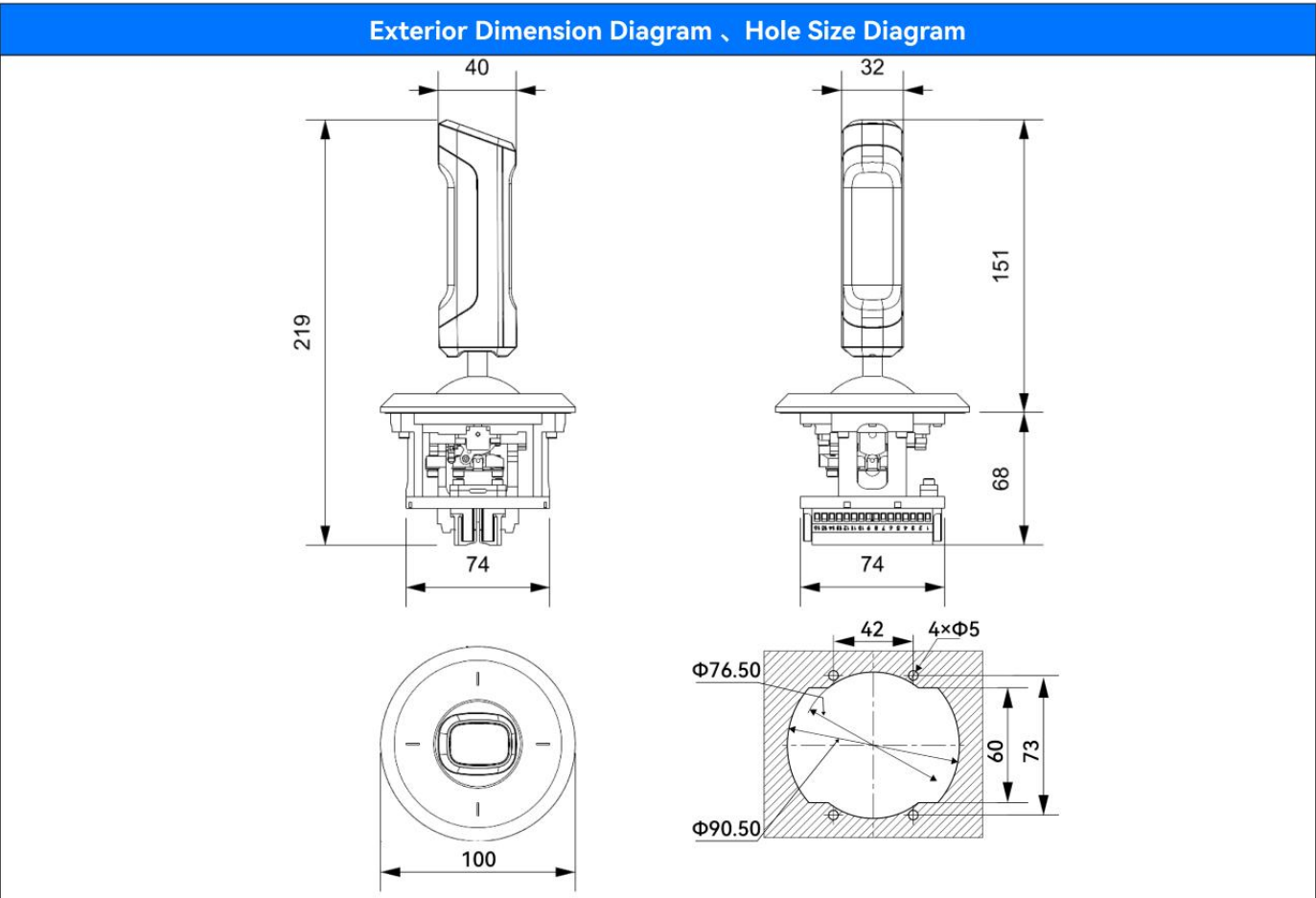


Figure1.3

1 Introduction

1.5 Product wiring diagram

1. Used for wiring the WLF-10H handle, as shown in Figure 1.4.

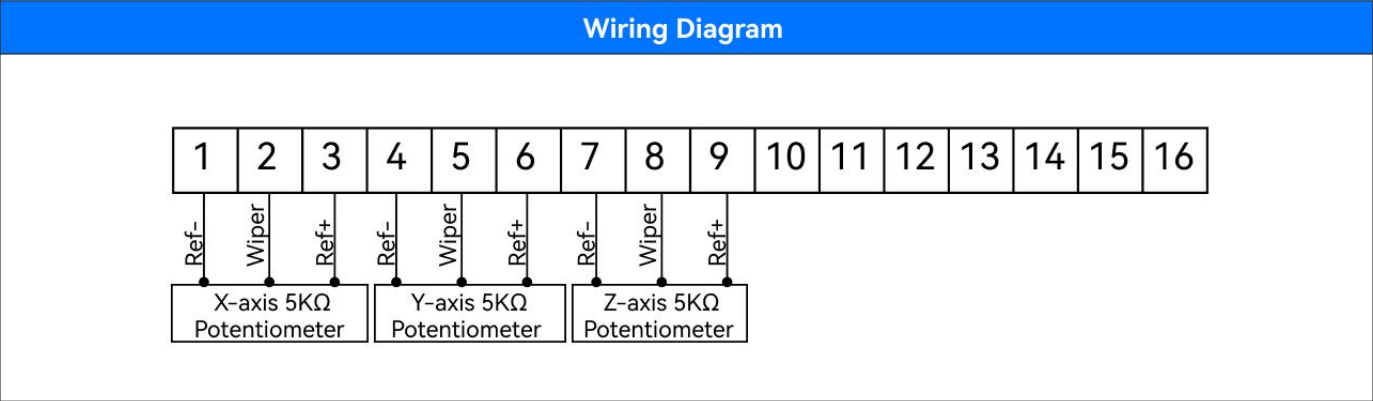


Figure1.4

2 Technical parameter

2.1 Product basic parameter

Supply voltage	24VDC
Operating Temperature	-20~70℃
Feedback precision	≤1%
Protection Rating	IP56

Table2.1

3 Installation instructions

1. Remove 4 sets of installation accessories (nuts, spring washers, flat washers) as shown in Figure 3.1; the installation bolts do not need to be removed. Place the 4 sets of accessories aside and ensure they are not lost.

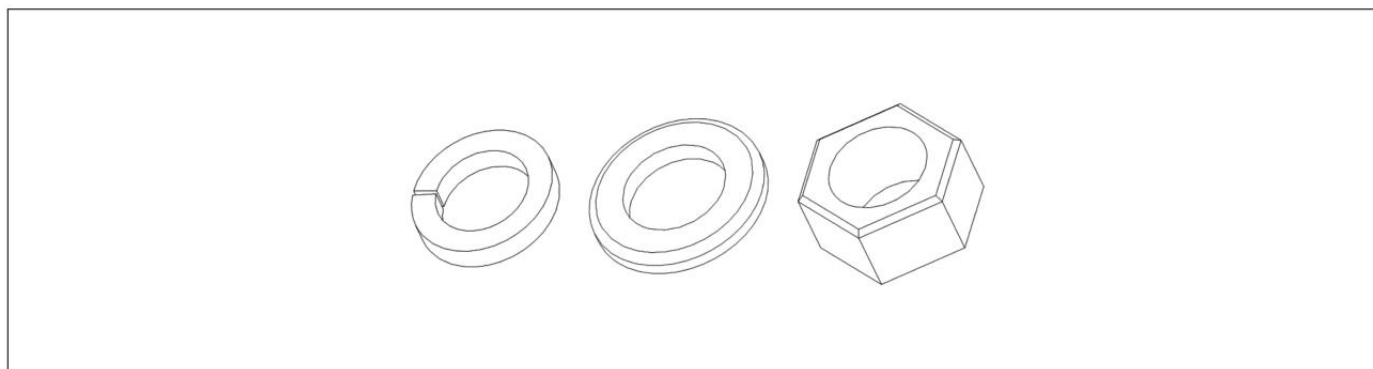


Figure3.1

2. As shown in Figure 3.2, install the handle body on the A installation surface.

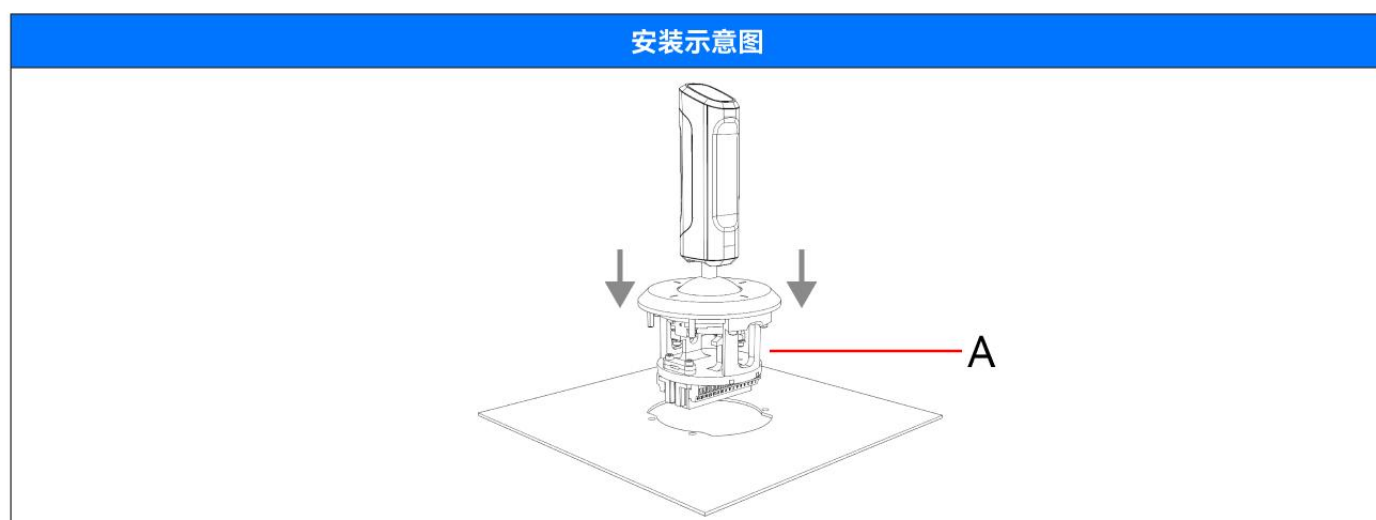


Figure3.2

3. As shown in Figure 3.3, tighten screw B to ensure it is secure and reliable.

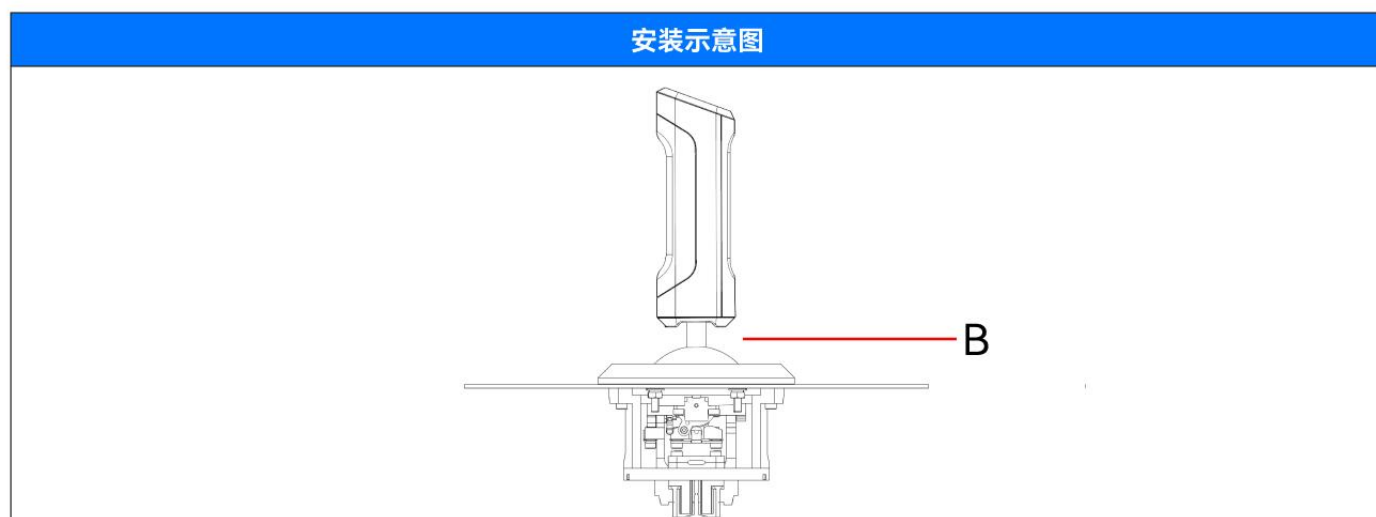


Figure3.3

4 Instructions and precautions for use

4.1 Instructions for use

1. Pay attention to wiring according to the drawing, do not yank and twist during use to prevent damage.

5 Fault analysis and elimination

Since its production and deployment, this product has experienced minimal malfunctions. According to our statistics, post-sales issues are primarily attributed to wiring errors, which result in the inability to use the product normally. Apart from this, there have been no technical faults. If customers encounter technical problems during use, they are advised to promptly communicate and consult with our technical personnel.

6 Safety protection and accident handling

6.1 Safety protection devices and precautions

1. The important position of this product has been tightened seal processing at the factory, shall not be disassembled without permission, if the seal is damaged, any product quality problems are borne by the buyer.
2. Once the product fails to operate normally, please stop using and disconnect the power supply immediately, and contact our after-sales service engineer for a solution.

6.2 Troubleshooting procedures and methods

1. In the process of use, there is an unsolvable fault problem, contact our after-sales service engineer.
2. During the warranty period, if the fault occurs due to the product itself, we will provide a complete replacement product and send it to the buyer for free replacement. And provide technical support; If the fault is not caused by the product itself, we can provide two options of complete replacement products and on-site services, which are selected by the buyer. All costs are borne by the recipient.
3. If the warranty period is exceeded and the fault occurs, we can provide two service options that can completely replace the product or replace some parts of the product, which are selected by the buyer. The required cost shall be borne by the purchaser.

7 Maintenance and repair

7.1 Daily maintenance and maintenance

In the daily non-use state, attention should be paid to the maintenance of this product. Through maintenance, maintenance can improve the service life of the product, the specific maintenance and maintenance methods are as follows:

1. Wipe the surface of the product regularly with a dry rag to ensure that the outside of the product is clean and tidy.

7.2 Operation precautions

1. Stop using the device when there is a problem. Contact our after-sales engineer.
2. The input voltage shall be carried out in strict accordance with the wiring instructions. Failure to operate according to the regulations will result in product failure or other major accidents, which shall be borne by the buyer.

7.3 Long-term maintenance and maintenance

Long-term placement, maintenance maintenance methods, and daily maintenance, maintenance methods are the same.

8 Transportation, storage and warranty

8.1 Transportation precautions

Physical damage to the product caused by violent shaking and collision should be avoided during transportation.

8.2 Storage precautions

Room temperature, dry, cool environment.

8.3 Warranty period

The warranty period of this product is 12 months from the date of receipt of the goods by the buyer. Based on the date of receipt of documents for express delivery or the date of receipt of invoice.

9 Other

9.1 Phone number of the after-sales engineer

Contact: Mr.Xu

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9.2 Company information

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