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> 4 Directions Hoist Push Button Switch, 4 Buttons Crane Lifting Pendant Controller with Emergency Stop Button for Hoist and Crane

FOSA fosapdqe9u70ny

Instruction Manual for FOSA 4-Direction Hoist Push Button Switch

Model: fosapdqe9u70ny

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the FOSA 4-Direction Hoist Push Button Switch. This pendant controller is designed for industrial applications, specifically for controlling hoists and cranes. It features four directional buttons and an emergency stop button for enhanced safety and control.

SAFETY INFORMATION

WARNING: Always read and understand all safety instructions before operating this device. Failure to do so may result in serious injury or equipment damage.

- Ensure the power supply to the hoist or crane is disconnected before installation or maintenance.
- Verify all wiring connections are secure and correct according to the hoist/crane's electrical diagram.
- Do not operate the switch with wet hands or in wet conditions unless the device is specifically rated for such environments.
- Regularly inspect the switch for any signs of damage, wear, or loose connections. Replace if damaged.
- The emergency stop button is for immediate cessation of operation. Test its functionality periodically.
- Only qualified personnel should perform installation and wiring.

PRODUCT OVERVIEW

The FOSA Hoist Push Button Switch is a robust controller made from durable ABS plastic, designed for reliable operation in industrial settings. It features clearly marked buttons for directional control and a prominent emergency stop button.



Figure 1: Front view of the FOSA 4-Direction Hoist Push Button Switch. This image displays the overall design, including the yellow casing, the black cable gland at the top, the prominent red emergency stop button, and the four black and white directional control buttons arranged vertically.



Figure 2: Close-up view of the control buttons. This image provides a detailed look at the red emergency stop button, followed by the white 'Up' button, black 'Down' button, white 'Left' button, and black 'Right' button, each marked with clear directional arrows.



Figure 3: Product Dimensions. This image illustrates the physical dimensions of the hoist switch, indicating a total length of 40.5 cm (15.9 inches) and a width of 7.6 cm (3 inches) for the main body.



Figure 4: Controller in Use Context. This image shows a hand holding the hoist switch, with a background of industrial cranes and a construction site, illustrating the typical environment and application for this control device.

SETUP AND INSTALLATION

Installation of the FOSA Hoist Push Button Switch requires electrical knowledge and should only be performed by qualified personnel.

1. **Power Disconnection:** Before beginning any installation, ensure that the main power supply to the hoist or crane system is completely disconnected and locked out to prevent accidental startup.
2. **Access Wiring:** Open the control panel or junction box of your hoist/crane system to access the existing control wiring.
3. **Wire Identification:** Carefully identify the corresponding wires for each directional movement (Up, Down, Left, Right) and the emergency stop circuit. Refer to your hoist/crane's specific wiring diagram.
4. **Connect Wires:** Connect the wires from the FOSA pendant controller to the appropriate terminals in the hoist/crane control system. The switch uses a screw terminal connection type. Ensure all connections are tight and secure.
 - The switch is a Normally Open (NO) type.

- The emergency stop button is typically wired in series with the main control circuit for immediate power cut-off.
5. **Secure Cable:** Route the cable from the pendant controller securely, ensuring it is protected from mechanical damage and does not interfere with moving parts. Use the integrated cable gland at the top of the switch for strain relief.
 6. **Enclosure Closure:** Close and secure the hoist/crane control panel or junction box.
 7. **Initial Test:** Before full operation, restore power and perform a functional test of each button, including the emergency stop, in a controlled environment without a load.

OPERATING INSTRUCTIONS

The FOSA Hoist Push Button Switch provides intuitive control for hoist and crane operations.

1. **Power On:** Ensure the hoist/crane system is powered on and ready for operation.
2. **Directional Control:**
 - Press the **Up** button (white, with upward arrow) to raise the hoist.
 - Press the **Down** button (black, with downward arrow) to lower the hoist.
 - Press the **Left** button (white, with leftward arrow) to move the crane bridge or trolley to the left.
 - Press the **Right** button (black, with rightward arrow) to move the crane bridge or trolley to the right.

Release the button to stop the corresponding movement.

3. **Emergency Stop:** In case of an emergency or unexpected movement, immediately press the large **red emergency stop button**. This will cut power to the control circuit and stop all operations. To reset the emergency stop, twist the button clockwise until it pops out.
4. **One-Handed Operation:** The ergonomic design allows for comfortable and reliable one-handed operation.

Demonstration Video

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Video 1: "Chain Crane Button Switch Controller" - This video demonstrates the basic functionality and appearance of a similar hoist and crane button switch controller, providing a visual aid for understanding its operation.

MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your FOSA Hoist Push Button Switch.

- **Regular Inspection:** Periodically inspect the casing for cracks or damage. Check the cable for fraying or insulation breaks.
- **Button Functionality:** Ensure all buttons depress and return smoothly. Test the emergency stop button regularly.
- **Cleaning:** Clean the exterior of the switch with a soft, dry cloth. Do not use abrasive cleaners or solvents. If necessary, a slightly damp cloth can be used, ensuring no moisture enters the internal components.
- **Wiring Check:** Annually, or as required by your facility's safety protocols, inspect the internal wiring connections for tightness and corrosion. (This should only be done by qualified personnel with power disconnected).
- **Storage:** When not in use for extended periods, store the switch in a clean, dry environment, away from extreme temperatures and direct sunlight.

TROUBLESHOOTING

If you encounter issues with your FOSA Hoist Push Button Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Switch does not respond.	No power to the hoist/crane; Emergency stop engaged; Loose wiring connection; Internal switch fault.	Check main power supply. Disengage emergency stop button. Inspect and tighten wiring connections (with power off). If problem persists, consult a qualified technician.
Specific button does not work.	Faulty button; Loose internal wiring for that button.	Inspect internal wiring for the specific button (with power off). If button is physically stuck or damaged, the unit may need replacement.
Intermittent operation.	Loose wiring connections; Damaged cable.	Check all wiring connections for tightness. Inspect the entire length of the cable for damage. Replace cable or unit if damage is found.
Emergency stop button won't reset.	Button is not fully twisted; Internal mechanism issue.	Ensure the button is twisted fully clockwise until it clicks and pops out. If it remains stuck, the button mechanism may be faulty and require professional inspection or replacement.

SPECIFICATIONS

Feature	Detail
Brand	FOSA
Model Number	fosapdqe9u70ny
Material	ABS plastic (Casing), Copper, Brass (Contact Material)
Operation Mode	Push Button
Contact Type	Normally Open
Rated Current	5 Amps
Working Voltage	500 Volts
Head IP Rating	IP54
Circuit Type	4-way
Terminal Type	Screw
Dimensions (L x W x H)	40.5 cm x 7.6 cm (15.9 inches x 3 inches) - main body; Overall product dimensions: 3.94 x 3.94 x 3.94 inches (likely packaging or shipping dimensions)
Weight	625g (approx.) / 1.39 Pounds

WARRANTY AND SUPPORT

For warranty information or technical support regarding your FOSA Hoist Push Button Switch, please refer to the documentation provided at the time of purchase or contact FOSA customer service through their official channels. Details may also be available on the FOSA brand store page on Amazon: [FOSA Store](#).

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