

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Pizzato](#) /

› [Pizzato NS D4AZ1SMK-F41 Safety Locking Switch User Manual](#)

Pizzato D4AZ1SMK-F41

Pizzato NS D4AZ1SMK-F41 Safety Locking Switch User Manual

Model: D4AZ1SMK-F41

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Pizzato NS D4AZ1SMK-F41 Safety Locking Switch. This device is designed to enhance safety in industrial applications by ensuring machinery remains in a safe state when access is required.

2. SAFETY INFORMATION

Always adhere to local and national safety regulations. Installation and maintenance should only be performed by qualified personnel. Disconnect power before performing any work on the device. Failure to follow these instructions may result in serious injury or equipment damage.

- Ensure all power sources are de-energized and locked out before installation or maintenance.
- Verify correct wiring according to the provided electrical diagrams.
- Do not bypass or tamper with safety devices.
- Regularly inspect the switch for signs of wear or damage.

3. PRODUCT FEATURES

The Pizzato NS D4AZ1SMK-F41 Safety Locking Switch incorporates advanced features for reliable safety interlocking:

- **RFID Technology:** Utilizes Radio-Frequency Identification for secure and tamper-resistant interlocking.
- **Safety Locking Mechanism:** Ensures doors or guards remain locked until safe conditions are met.
- **Integrated Actuator:** Comes with a dedicated actuator for precise engagement.
- **Durable Construction:** Designed for industrial environments.
- **NS Series:** Part of the robust NS series of safety devices.

4. PACKAGE CONTENTS

The package for the NS D4AZ1SMK-F41 typically includes:

- 1 x Pizzato NS D4AZ1SMK-F41 Safety Locking Switch
- 1 x Actuator (integrated or separate, depending on model variant)
- 1 x Instruction Manual (this document)

5. SETUP AND INSTALLATION

Proper installation is critical for the safety function of the device. Refer to the detailed wiring diagrams provided with the product packaging for specific electrical connections.

1. **Mounting:** Securely mount the safety switch and its corresponding actuator on the machine guard or door frame using appropriate fasteners. Ensure correct alignment for proper engagement.
2. **Wiring:** Connect the switch to the control circuit according to the electrical schematic. Pay close attention to safety circuit connections (e.g., normally closed contacts for safety functions).
3. **Actuator Alignment:** Verify that the actuator enters the switch head smoothly and fully, ensuring proper locking and unlocking.
4. **Testing:** After installation, perform a thorough functional test to confirm the safety switch operates as intended. Test both the locking and unlocking mechanisms, and verify that the machine cannot operate when the guard is open or improperly locked.



Figure 1: The Pizzato NS D4AZ1SMK-F41 Safety Locking Switch. This image shows the compact, rectangular body of the switch, primarily dark grey, with a red top section where the actuator is inserted. The top section features screw points and an opening for the actuator. The side of the switch body has visible screws and two light grey rectangular markings.

6. OPERATING INSTRUCTIONS

The NS D4AZ1SMK-F41 operates as part of a safety interlocking system:

- **Guard Closed and Locked:** When the machine guard or door is closed and the actuator is fully inserted into the switch, the RFID technology verifies the correct actuator, and the locking mechanism engages. This allows the machine to operate.

- **Guard Open or Unlocked:** If the guard is opened, or the locking mechanism is disengaged (e.g., by a release button or signal), the actuator is withdrawn from the switch. This action immediately breaks the safety circuit, preventing or stopping machine operation.
- **Manual Release:** Some models may feature a manual release mechanism for emergency or maintenance access. Use this only when the machine is confirmed to be in a safe, de-energized state.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your safety switch.

- **Cleaning:** Keep the switch and actuator free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the switch for physical damage, loose connections, or excessive wear on the actuator or switch head.
- **Functional Check:** Regularly test the safety function of the switch by attempting to operate the machine with the guard open or unlocked. The machine should not start or should immediately stop.
- **Lubrication:** The switch mechanism is generally maintenance-free. Do not lubricate unless specifically instructed by Pizzato documentation.

8. TROUBLESHOOTING

If you encounter issues with your safety locking switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Switch does not lock/unlock properly.	Misalignment of actuator and switch head. Debris in switch opening. Damaged actuator or switch.	Check and adjust alignment. Clean the switch opening. Inspect for damage; replace if necessary.
Machine operates with guard open.	Incorrect wiring. Faulty switch contacts. Bypassed safety circuit.	Immediately stop machine. Verify wiring against schematic. Test switch contacts with a multimeter. Do not bypass safety circuits.
RFID error indication.	Incorrect actuator. Interference. Damaged RFID tag/reader.	Ensure correct Pizzato RFID actuator is used. Check for strong electromagnetic interference. Contact technical support if issue persists.

If the problem persists after attempting these solutions, contact Pizzato technical support or a qualified technician.

9. SPECIFICATIONS

Key technical specifications for the Pizzato NS D4AZ1SMK-F41 Safety Locking Switch:

- **Model:** D4AZ1SMK-F41
- **Series:** NS
- **Technology:** RFID
- **Actuator:** Included/Integrated
- **Weight:** 1.15 Pounds (approx.)
- **Manufacturer:** PIZZATO

- **ASIN:** B0FDRX93R4
- **Unit Count:** 1.0 Count
- **Number of Items:** 1

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Pizzato website or contact your authorized Pizzato distributor. Keep your purchase receipt and product serial number handy when contacting support.

Manufacturer: PIZZATO

Website: www.pizzato.com (Example link, actual link may vary)



© 2025 Pizzato. All rights reserved. Information subject to change without notice.