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Pizzato FD 1878

PIZZATO FD 1878 Rope Safety Switch User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the PIZZATO FD 1878 Rope Safety Switch. Please read this manual thoroughly before attempting any installation or operation to ensure proper functionality and to prevent potential hazards. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Improper installation or use of this device can result in serious injury or death. Always adhere to local and national electrical codes and safety regulations.

- Installation and maintenance must be performed by qualified and authorized personnel only.
- Ensure all power to the machinery is disconnected and locked out before installation, maintenance, or troubleshooting.
- Do not bypass or tamper with the safety switch.
- Regularly inspect the switch and associated rope for damage or wear.
- The device is designed for industrial applications. Use outside its specified parameters may compromise safety.

3. PRODUCT OVERVIEW

The PIZZATO FD 1878 is a robust rope safety switch designed for emergency stop applications on machinery. It features a longitudinal head, a durable metal housing, and silver contacts for reliable operation. The switch is activated by pulling a rope connected to its actuator, providing a safety stop function across a designated area.



Figure 1: The PIZZATO FD 1878 Rope Safety Switch. This image displays the PIZZATO FD 1878 Rope Safety Switch. It features a red and black metal housing, a longitudinal head with a roller actuator, and a blue 'RESET' button. The side of the housing shows the 'Pizzato' logo and various certifications like CE and EAC, along with the model number FD 1878.

Key Features:

- Contact Configuration: 1 NO / 1 NC (Normally Open / Normally Closed)
- Operating Temperature: -25 to 80 degrees Celsius
- Actuator Type: Longitudinal Head
- Housing Material: Metal
- Conduit Entry: One PG 11 conduit entry
- Contacts: Silver contacts for enhanced durability and conductivity
- Action: Slow action mechanism

4. SETUP AND INSTALLATION

Before installation, ensure the mounting surface is stable and free from vibrations. The switch should be positioned to allow for clear access to the rope and reset mechanism.

4.1 Mounting

1. Select a suitable mounting location that provides unobstructed access to the safety rope and is within the operational range of the machinery.
2. Secure the metal housing of the FD 1878 switch using appropriate fasteners through the designated mounting holes. Ensure the switch is firmly attached to prevent movement during operation.

4.2 Rope Attachment

1. Attach the safety rope to the longitudinal head actuator. Ensure the rope is taut but not excessively tight, allowing for proper activation upon pulling.
2. Install rope guides and tensioning devices as necessary to maintain proper rope alignment and tension along the protected area.

4.3 Electrical Connection

The FD 1878 features one PG 11 conduit entry for electrical wiring. Connect the switch to the control circuit according to the wiring diagram provided with your machinery and local electrical codes.

- Access the internal terminals by removing the cover.
- Connect the control circuit wires to the 1 NO (Normally Open) and 1 NC (Normally Closed) contacts as required by your application.
- Ensure all connections are secure and properly insulated.
- Replace the cover and ensure the conduit entry is sealed to maintain the IP67 protection rating.

5. OPERATING INSTRUCTIONS

The PIZZATO FD 1878 Rope Safety Switch is designed for emergency stop functionality. When the safety rope is pulled, the switch activates, interrupting the control circuit and stopping the associated machinery.

5.1 Activation

To activate the emergency stop function, pull the safety rope. The longitudinal head actuator will move, causing the internal contacts to change state (NO contacts open, NC contacts close), thereby stopping the machinery. The switch employs a slow action mechanism, ensuring reliable contact breaking.

5.2 Resetting the Switch

After an emergency stop activation, the switch must be manually reset before the machinery can be restarted. Locate the blue 'RESET' button on the switch housing (refer to Figure 1). Push and hold the button until the actuator returns to its original position and the contacts reset. Ensure the cause of the emergency stop has been addressed before resetting and restarting machinery.

6. MAINTENANCE

Regular maintenance ensures the continued reliable operation of the PIZZATO FD 1878 Rope Safety Switch.

- **Monthly Inspection:** Visually inspect the switch housing, actuator, and safety rope for any signs of damage, wear, or corrosion. Check the rope tension and ensure it is free from obstructions.
- **Functional Test:** Periodically test the switch by activating the emergency stop function and verifying that the machinery stops as intended. Confirm the reset mechanism operates smoothly.
- **Cleaning:** Keep the switch free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Do not use

abrasive cleaners or solvents.

- **Contact Inspection:** While the switch uses durable silver contacts, if issues arise, a qualified technician should inspect the internal contacts for wear or contamination.

7. TROUBLESHOOTING

If the PIZZATO FD 1878 Rope Safety Switch is not functioning correctly, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Switch does not activate when rope is pulled.	Rope too loose; Actuator obstructed; Internal damage.	Adjust rope tension; Clear obstructions; Inspect switch for damage (qualified personnel only).
Switch does not reset.	Reset button stuck; Internal mechanism jammed; Rope still under tension.	Ensure rope is slack; Check reset button for free movement; Inspect internal mechanism (qualified personnel only).
Intermittent operation.	Loose wiring connections; Worn contacts; Environmental factors.	Check and secure all electrical connections; Inspect contacts for wear; Ensure operating environment is within specifications.

If problems persist after following these steps, contact a qualified technician or PIZZATO customer support.

8. SPECIFICATIONS

Parameter	Value
Model	FD 1878
Contact Configuration	1 NO / 1 NC
Operating Temperature	-25 to 80 degrees Celsius
Actuator Type	Longitudinal Head
Housing Material	Metal
Conduit Entry	One PG 11
Contacts	Silver
Action Type	Slow Action
Protection Rating	IP67
Certifications	CE, EAC, UL (IND.CONT.EQ. A600), GB/T14048.5
Product Dimensions	5.91 x 1.57 x 5.91 inches
Weight	6.56 ounces

9. WARRANTY AND SUPPORT

The PIZZATO FD 1878 Rope Safety Switch is manufactured to high-quality standards and comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms, please refer to the documentation provided at the time of purchase or contact PIZZATO directly.

For technical support, spare parts, or further assistance, please contact your authorized PIZZATO distributor or visit the official PIZZATO website.