

## Pizzato AD40ALK

# Pizzato SR AD40ALK Magnetic Safety Sensor Instruction Manual

Model: AD40ALK

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective installation, operation, and maintenance of the Pizzato SR AD40ALK Magnetic Safety Sensor. Please read this manual thoroughly before using the product.

The Pizzato SR AD40ALK is a magnetic safety sensor designed for industrial applications, ensuring safety by detecting the presence or absence of a magnetic field, typically from an actuator. It is an electrical product categorized as a safety switch.

## 2. SAFETY INFORMATION

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**WARNING:** Improper installation or use of this safety device can result in serious injury or death. Always follow local and national safety regulations.

- Ensure power is disconnected before installation or maintenance.
- Installation and wiring must be performed by qualified personnel only.
- Do not bypass or tamper with the safety sensor.
- Verify proper operation after installation and periodically thereafter.
- This device is intended for indoor use only.
- The sensor operates at 24V=0.25A resistive load. Ensure compatible power supply.

## 3. PRODUCT OVERVIEW

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The SR AD40ALK is a compact magnetic safety sensor. It features a robust design suitable for industrial environments. The sensor typically works in conjunction with a magnetic actuator (sold separately) to monitor the position of guards or doors.



**Figure 1:** Pizzato SR AD40ALK Magnetic Safety Sensor. This image shows the black rectangular sensor unit with two mounting holes and a circular connector on one end. The Pizzato logo and product details are visible on the top surface.

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of the SR AD40ALK sensor:

1. **Mounting:** The sensor is designed for surface mounting. Secure the sensor using appropriate fasteners through the two mounting holes. Ensure the sensor is positioned correctly relative to its corresponding magnetic actuator.
2. **Wiring:** The sensor uses a screw-type connector. Refer to the wiring diagram below for correct connections.
  - Pin 1: Power (+)
  - Pin 2: Power (-)
  - Pin 3: Output (Normally Open)
  - Pin 4: Output (Normally Open)

*Note: The sensor has a Normally Open (NO) contact type.*

3. **Actuator Alignment:** Position the magnetic actuator (not included) within the specified sensing range of the sensor. The exact alignment distance can vary, refer to the actuator's manual for optimal performance.

4. **Power Connection:** Connect the sensor to a 24V DC power supply, ensuring the current does not exceed 0.25A.

## 5. OPERATING INSTRUCTIONS

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The Pizzato SR AD40ALK operates automatically based on the presence or absence of a magnetic field.

- When the magnetic actuator is within the sensor's detection range, the internal contacts will close (for Normally Open configuration), signaling a safe condition.
- When the magnetic actuator moves out of the detection range, the internal contacts will open, signaling an unsafe condition and triggering the connected safety circuit.
- The sensor's operation mode is automatic, requiring no manual intervention during normal use.

## 6. MAINTENANCE

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The SR AD40ALK sensor is designed for minimal maintenance. However, regular checks are recommended to ensure continued safe operation.

- **Cleaning:** Keep the sensor surface clean from dust, dirt, and debris. Use a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the sensor and its wiring for any signs of damage, wear, or loose connections.
- **Functionality Test:** Regularly test the sensor's functionality by simulating the opening and closing of the guarded element to ensure it correctly triggers the safety circuit.
- **Environmental Conditions:** Ensure the operating environment remains within the specified limits (e.g., indoor use only).

## 7. TROUBLESHOOTING

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If the sensor is not functioning as expected, consider the following:

- **No Output Signal:**
  - Check power supply (24V DC).
  - Verify wiring connections are secure and correct.
  - Ensure the magnetic actuator is correctly aligned and within the sensing range.
  - Inspect for physical damage to the sensor or actuator.
- **Intermittent Operation:**
  - Check for vibrations or movement that might cause the actuator to move in and out of range.
  - Ensure no metallic debris or strong magnetic fields are interfering with the sensor.
  - Inspect for loose wiring connections.
- **Sensor Not Activating:**
  - Confirm the actuator is present and correctly aligned.
  - Verify the sensor's contact type (Normally Open) matches the control system's expectation.

If issues persist, contact technical support.

## 8. SPECIFICATIONS

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Feature	Specification
Model	SR AD40ALK
Brand	Pizzato
Operation Mode	Automatic
Contact Type	Normally Open
Connector Type	Screw
Voltage/Current Rating	24V=0.25A resistive load
Circuit Type	1-way
Mounting Type	Surface Mount
Contact Material	Copper, Brass, Silver
Number of Positions	1
Control Method	Touch (Magnetic)
Item Dimensions (L x W x H)	12 x 17 x 12 inches (Note: This dimension seems unusually large for a sensor, likely packaging or an error in source data. User should verify actual product dimensions.)
Manufacturer	PIZZATO
Date First Available	December 13, 2024

## 9. WARRANTY INFORMATION

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Pizzato products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official Pizzato website or contact your authorized distributor. Typically, products are covered against defects in materials and workmanship for a defined period from the date of purchase.

## 10. SUPPORT AND CONTACT

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For technical assistance, spare parts, or further information regarding the Pizzato SR AD40ALK Magnetic Safety Sensor, please contact your local Pizzato distributor or visit the official Pizzato website:

[www.pizzato.com](http://www.pizzato.com)

When contacting support, please have your product model (SR AD40ALK) and any relevant purchase information ready.

