

Aoleaby Sentry BSR10 2TLA010040R0000

User Manual: Original Safety Relay Sentry BSR10
24VDC 2TLA010040R0000

Model: Sentry BSR10 2TLA010040R0000

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the Original Safety Relay Sentry BSR10 24VDC 2TLA010040R0000. This device is designed to enhance safety in electrical circuits by monitoring various parameters and initiating protective actions when dangerous conditions are detected.

A safety relay is a critical component used to control a circuit, primarily to monitor parameters such as current and voltage. Its function is to cut off power immediately upon detecting an overload, short circuit, ground fault, or other hazardous conditions, thereby preventing damage to equipment and ensuring personnel safety.

The Sentry BSR10 is manufactured with high-quality components and reliable technology, ensuring stable operation over extended periods even in demanding environments. It is designed for ease of installation and operation, requiring minimal commissioning and maintenance.

2. SAFETY INFORMATION

Important Safety Instructions:

- Always disconnect power before installing, servicing, or removing the safety relay. Failure to do so can result in serious injury or death.
- Installation and wiring must be performed by qualified personnel in accordance with all local and national electrical codes and regulations.
- Do not operate the device if it appears damaged or has been subjected to excessive moisture.
- Ensure proper grounding to prevent electrical shock.
- Verify all connections are secure before applying power.
- This safety relay is designed for specific applications. Do not use it for purposes other than those specified in this manual.

3. PRODUCT FEATURES

The Sentry BSR10 Safety Relay offers the following key features:

- Monitors various parameters in an electrical circuit, including current and voltage.
- Automatically cuts off power upon detection of current overload, short circuit, ground fault, or other dangerous conditions.
- Constructed with high-quality components and reliable technology for long-term stable operation in harsh environments.
- Designed for simple installation and operation, minimizing the need for complex commissioning and maintenance.
- Customizable and configurable to suit different needs and scenarios, making it suitable for a wide range of circuits and equipment.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safety relay's performance and the overall safety of the system. It is highly recommended that installation be carried out by a certified electrician or qualified technical personnel.

General Installation Steps:

1. **Preparation:** Ensure the power supply to the circuit where the relay will be installed is completely disconnected and locked out.
2. **Mounting:** Mount the Sentry BSR10 safety relay securely in a suitable enclosure or on a DIN rail, ensuring adequate ventilation and protection from environmental factors.
3. **Wiring:** Connect the input, output, and power supply terminals according to the circuit diagram provided with the product or specific application requirements. Pay close attention to polarity and terminal designations.
4. **Verification:** Double-check all wiring connections for correctness and security. Ensure there are no loose wires or potential short circuits.
5. **Testing:** Before fully integrating into the system, perform initial tests to confirm the relay functions as expected, including its ability to detect faults and cut power.

Refer to the product packaging image below for visual identification of the device and its basic information.



This image displays the retail packaging for the Sentry BSR10 Safety Relay, model number 2TLA010040R0000. The packaging indicates it is a safety relay, quantity 1, with an IP20 rating. It also shows various certifications such as CE, UKCA, TUV SUD, and a barcode with the number 7350024483253.

5. OPERATING INSTRUCTIONS

Once properly installed and powered, the Sentry BSR10 Safety Relay operates autonomously to monitor the designated electrical circuit. Its primary function is to ensure the safety of the system by continuously checking for abnormal conditions.

Normal Operation:

- When the circuit parameters are within safe limits, the safety relay allows power to flow through the controlled circuit.
- Indicators (if present on the device) may show a green light or steady state, indicating normal operation.

Fault Detection and Response:

- Upon detecting a fault condition (e.g., overcurrent, short circuit, ground fault, or other specified dangerous

conditions), the safety relay will immediately activate its protective mechanism.

- This typically involves opening the circuit to cut off power, thereby preventing damage to equipment or injury to personnel.
- Indicators on the device may change (e.g., red light, flashing) to signal a fault condition.

Resetting the Relay:

After a fault has been detected and corrected, the safety relay may require a manual or automatic reset, depending on its configuration and the nature of the fault. Consult the specific wiring diagram or product datasheet for detailed reset procedures. Always ensure the fault condition is resolved before attempting to reset the relay.

6. MAINTENANCE

The Sentry BSR10 Safety Relay is designed for high reliability and minimal maintenance. However, periodic checks are recommended to ensure continued optimal performance and safety.

Recommended Maintenance Practices:

- **Visual Inspection:** Regularly inspect the relay and its connections for any signs of physical damage, corrosion, loose wiring, or overheating.
- **Environmental Check:** Ensure the operating environment remains within the specified temperature and humidity ranges. Keep the area around the relay clean and free from dust and debris.
- **Functional Testing:** Periodically test the safety function of the relay according to the system's safety protocol. This may involve simulating a fault condition to verify the relay's response.
- **Cleaning:** If necessary, gently clean the exterior of the relay with a dry, soft cloth. Do not use abrasive cleaners or solvents.

Note: Any internal maintenance or repair should only be performed by authorized service personnel. Tampering with the device may void the warranty and compromise safety.

7. TROUBLESHOOTING

This section provides guidance for common issues you might encounter with the Sentry BSR10 Safety Relay. For complex problems, contact qualified technical support.

Problem	Possible Cause	Solution
Relay does not power on.	No power supply; incorrect wiring; faulty power source.	Check power connections and voltage. Verify wiring against the diagram. Test the power source.
Relay trips unexpectedly.	Actual fault condition (overload, short circuit); sensitive settings; external interference.	Investigate the circuit for actual faults. Review system load. Consult the datasheet for sensitivity adjustments if applicable.
Relay does not reset after fault.	Fault condition still present; incorrect reset procedure; internal relay fault.	Ensure the fault is fully cleared. Follow the correct reset procedure (manual/automatic). If problem persists, the relay may need replacement.
Indicators are not functioning.	Power issue; internal component failure.	Verify power supply. If power is present and the relay functions otherwise, the indicators may be faulty.

8. SPECIFICATIONS

The following are the technical specifications for the Original Safety Relay Sentry BSR10 24VDC 2TLA010040R0000:

Attribute	Value
Model Number	Sentry BSR10 2TLA010040R0000
Brand	Aoleaby
ASIN	B0D41L1KMN
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	10.6 ounces
Manufacturer	Aoleaby
Country of Origin	China
Assembly Required	No
Number of Pieces	1
IP Rating (from image)	IP20

9. WARRANTY AND SUPPORT

Warranty Information:

Specific warranty terms for the Original Safety Relay Sentry BSR10 24VDC 2TLA010040R0000 are typically provided by the manufacturer, Aoleaby, or the authorized seller at the time of purchase. Please refer to the warranty card included with your product packaging or contact your point of purchase for detailed warranty coverage, duration, and conditions.

Technical Support:

For technical assistance, troubleshooting beyond this manual, or inquiries regarding product functionality, please contact the manufacturer, Aoleaby, or the seller from whom you purchased the product. Have your product model number (Sentry BSR10 2TLA010040R0000) and purchase details ready when contacting support.

For general inquiries, you may also refer to the manufacturer's official website or contact their customer service department.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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