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### Aexit SSR-10 DA

# Aexit Solid State Relay SSR-10 DA Instruction Manual

Model: SSR-10 DA

## 1. Introduction

This manual provides essential information for the safe and effective use of the Aexit SSR-10 DA Solid State Relay. This DC-AC relay module is designed for various automatic control systems, offering reliable and efficient switching without mechanical contacts.

Key features of this solid state relay include:

- High reliability, high efficiency, and long lifespan.
- Absence of electric arc, noise, and mechanical contact during operation.
- Reduced electromagnetic interference, high sensitivity, and fast switching speed.
- Low drive voltage and current requirements.
- Suitable for harsh environments, including those with corrosion, moisture, or debris.




Figure 1: Top view of the Aexit SSR-10 DA Solid State Relay. This image shows the silver-tone metal casing with mounting holes and the overall compact design of the relay module.

## 2. Setup and Installation

Proper installation is crucial for the safe and optimal performance of the solid state relay. Always ensure power is disconnected before beginning installation.

### 2.1 Safety Precautions

- Disconnect all power sources before installation or maintenance.
- Ensure the input control voltage and output load voltage/current are within the specified ratings of the SSR-10 DA.
- For loads exceeding 10A, a suitable heat sink is recommended to prevent overheating and ensure longevity.
- Install in a dry, well-ventilated area, away from corrosive gases or excessive vibration.

### 2.2 Wiring Instructions

1. **Identify Terminals:** The SSR-10 DA has four screw terminals. Two terminals are for DC input control (3-32VDC), and two are for AC output load (24-380VAC). Refer to the markings on the relay for correct identification.
2. **Connect DC Input:** Connect the DC control voltage source (e.g., from a microcontroller or switch) to the input terminals. Ensure correct polarity if specified on the device. The input voltage range is 3-32VDC.
3. **Connect AC Load:** Connect the AC load (e.g., motor, heater, light) to the output terminals. The output voltage range is 24-380VAC, with a maximum current rating of 10A.
4. **Secure Connections:** Ensure all screw terminals are tightened securely to prevent loose connections, which can cause arcing or overheating.
5. **Mounting:** Mount the relay securely using the provided mounting holes. If using a heat sink, ensure proper thermal paste application and secure attachment.



Figure 2: Side view of the Aexit SSR-10 DA Solid State Relay, showing the screw terminals. This image highlights the connection points for both the DC input and AC output, essential for proper wiring.

## 3. Operating Instructions

The Aexit SSR-10 DA operates as a simple on/off switch controlled by a DC voltage signal.

1. **Activation:** Apply a DC control voltage within the 3-32VDC range to the input terminals. This will cause the relay to switch to its 'ON' state, allowing the AC load to receive power.
2. **Deactivation:** Remove the DC control voltage from the input terminals. The relay will switch to its 'OFF' state, disconnecting power to the AC load.
3. **Silent Operation:** Due to its solid-state design, the relay operates silently without any audible clicking sounds associated with mechanical relays.
4. **Fast Switching:** The solid state design allows for very fast switching speeds, making it suitable for applications requiring rapid on/off cycles.

## 4. Maintenance

The Aexit SSR-10 DA Solid State Relay is designed for minimal maintenance. However, periodic checks can help ensure its long-term reliability.

- **Keep Clean and Dry:** Ensure the relay is kept free from dust, dirt, and moisture. Clean the exterior with a dry, soft cloth if necessary.
- **Inspect Connections:** Periodically check all wiring connections to ensure they remain tight and free from corrosion.
- **Verify Cooling:** If a heat sink is used, ensure it is free from obstructions and that airflow is adequate to prevent overheating.
- **Environmental Conditions:** Confirm that the operating environment remains within the specified temperature and humidity ranges.

## 5. Troubleshooting

If the solid state relay is not functioning as expected, refer to the following troubleshooting guide:

| Problem | Possible Cause | Solution |
|---|---|---|
| Relay does not switch ON | No or incorrect DC input voltage.<br>Faulty wiring.<br>Load circuit open. | Verify DC input voltage (3-32VDC) and polarity.<br>Check all wiring connections for continuity and correctness.<br>Ensure the AC load is properly connected and functional. |
| Relay does not switch OFF | DC input voltage not removed.<br>Internal relay failure. | Ensure DC input voltage is completely removed.<br>Replace the relay if internal failure is suspected. |
| Relay overheats | Load current exceeds rating.<br>Insufficient heat sinking.<br>Poor ventilation. | Reduce load current or use a higher-rated relay.<br>Install or improve heat sink.<br>Ensure adequate airflow around the relay. |
| Intermittent operation | Loose connections.<br>Unstable input voltage. | Tighten all screw terminals.<br>Ensure a stable and consistent DC input voltage. |

## 6. Specifications

| Feature | Specification |
|---|---|

| Feature | Specification |
|---|---|
| Model | SSR-10 DA |
| Type | DC-AC Solid State Relay |
| Input Control Voltage | DC 3-32V |
| Output Load Voltage | AC 24-380V |
| Output Load Current | 10 Amps |
| Contact Type | Normally Open |
| Terminals | 4 Screw Terminals |
| Material | Metal, Plastic, Electric Parts |
| Main Color | Silver Tone, Gray |
| Net Weight | 101g |
| Relay Size (L*W*H) | 62 x 45 x 23mm / 2.44 x 1.8 x 0.9 inches |

## 7. Warranty and Support

For warranty information or technical support regarding your Aexit SSR-10 DA Solid State Relay, please refer to the retailer or manufacturer's official website. Keep your purchase receipt for warranty claims.


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