

Schneider Electric SR2B201BD

Schneider Electric Zelio SR2B201BD 20 I/O 24Vdc Logic Relay Instruction Manual

Model: SR2B201BD

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Schneider Electric Zelio SR2B201BD Logic Relay. Please read this manual thoroughly before using the device to ensure safe and efficient operation.

The Zelio SR2B201BD is a compact programmable logic relay designed for simple automation systems. It features 20 I/O points and operates on a 24Vdc power supply.

2. SAFETY INFORMATION

- Ensure power is disconnected before installation or maintenance.
- Installation and wiring must be performed by qualified personnel in accordance with local and national electrical codes.
- Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- Verify correct voltage supply (24Vdc) before powering on.

3. PRODUCT OVERVIEW

The Schneider Electric Zelio SR2B201BD is a compact logic relay with integrated display and control buttons. It provides various input and output terminals for connecting to sensors, actuators, and other control components.



Figure 1: Front view of the Zelio SR2B201BD Logic Relay. This image displays the device's front panel, including the power terminals (+ and -), digital inputs (I1-I6), analog/digital inputs (IB-IG), the integrated display screen, navigation buttons (up, down, left, right, Menu/Ok), and relay outputs (Q1-Q8).

3.1. Key Features

- 20 I/O points (12 digital inputs, 8 relay outputs)
- 24Vdc power supply
- Integrated LCD display and push-buttons for programming and monitoring
- Compact design for DIN rail mounting

3.2. Dimensions and Weight

- Dimensions: 5.3 x 2.6 x 3.9 inches (134.6 x 66 x 99 mm)
- Weight: 12.6 ounces (357.2 grams)

4. SETUP AND INSTALLATION

4.1. Mounting

The Zelio SR2B201BD is designed for DIN rail mounting. Ensure adequate ventilation around the device.

4.2. Wiring

Refer to the terminal markings on the device for correct wiring connections. Use appropriate wire gauges for all connections.

4.2.1. Power Supply (24Vdc)

- Connect the + terminal to the positive 24Vdc supply.
- Connect the - terminal to the negative 24Vdc supply.

4.2.2. Inputs (I1-I6, IB-IG)

- **I1-I6:** Digital inputs, 24Vdc. Connect sensors or switches to these terminals.
- **IB-IG:** Analog or 24Vdc digital inputs. These inputs can be configured for either analog signal reception or digital 24Vdc input.

4.2.3. Outputs (Q1-Q8)

- **Q1-Q8:** Relay outputs, 8A. These are potential-free contacts for controlling external loads. Connect the load to the respective Q terminal and its common (1L/2L).

5. OPERATING INSTRUCTIONS

5.1. Powering On

Once all wiring is complete and verified, apply 24Vdc power to the device. The LCD display will illuminate, and the device will initiate its startup sequence.

5.2. Navigation and Programming

Use the navigation buttons (up, down, left, right) to scroll through menus and parameters on the LCD display. Press the **Menu/Ok** button to select an option or confirm a setting.

- **Programming:** Programs can be created directly on the device using the function block diagram (FBD) or ladder logic (LAD) editors via the display and buttons. Alternatively, programs can be developed using Zelio Soft 2 software on a PC and then transferred to the relay.
- **Monitoring:** The display allows real-time monitoring of input/output states, timer values, and counter values.
- **Parameter Adjustment:** Adjust various operational parameters such as timer presets, counter limits, and input/output configurations.

5.3. Software Integration (Zelio Soft 2)

For advanced programming and easier configuration, use the Zelio Soft 2 software. Connect the logic relay to a PC using the appropriate programming cable (sold separately). The software provides a graphical interface for program development, simulation, and transfer.

6. MAINTENANCE

The Zelio SR2B201BD is designed for minimal maintenance. Regular checks can help ensure long-term reliability.

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check all wiring connections for tightness and signs of corrosion.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply or incorrect voltage.	Verify 24Vdc power supply connections and voltage. Check fuses if applicable.
Inputs not responding.	Incorrect wiring, faulty sensor, or program error.	Check input wiring. Test sensor functionality. Review program logic for input conditions.
Outputs not activating.	Incorrect wiring, faulty load, or program error.	Check output wiring and load connections. Test load functionality. Review program logic for output conditions.
Display shows error message.	Internal fault or programming issue.	Note the error code and consult the detailed Zelio SR2 programming manual or Schneider Electric support. Try resetting the device.

8. SPECIFICATIONS

Parameter	Value
Model Number	SR2B201BD
Brand	Schneider Electric
Power Supply	24 Vdc
Digital Inputs	12 (I1-I6, IB-IG configurable)
Analog Inputs	Up to 6 (configurable from IB-IG)
Relay Outputs	8 (Q1-Q8), 8A per output
Display	Integrated LCD
Mounting	DIN Rail
Dimensions (L x W x H)	5.3 x 2.6 x 3.9 inches (134.6 x 66 x 99 mm)
Weight	12.6 ounces (357.2 grams)
Material	Metal

9. WARRANTY AND SUPPORT

9.1. Warranty Information

Schneider Electric products are covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Schneider Electric website. Keep your proof of purchase for warranty claims.






9.2. Technical Support

For technical assistance, programming queries, or troubleshooting beyond the scope of this manual, please contact Schneider Electric customer support or visit their official support portal. You can find contact information on the Schneider Electric website: www.se.com

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Related Documents - SR2B201BD

 <p>Catalogue Janvier 2022</p> <p>Zelio Logic</p> <p>Modules logiques</p> <p>Life is On Schneider Electric</p>	<p>Zelio Logic Catalogue Janvier 2022 - Schneider Electric Logic Modules</p> <p>Comprehensive catalog of Schneider Electric's Zelio Logic compact and modular logic modules. Details features, technical specifications, references, programming software (Zelio Soft 2), communication options (Modbus, Ethernet, Modem), and accessories for industrial automation applications.</p>
 <p>Catalog January 2022</p> <p>Zelio Logic</p> <p>Smart relays</p> <p>Life is On Schneider Electric</p>	<p>Zelio Logic Smart Relays Catalog - Schneider Electric</p> <p>Comprehensive catalog detailing Schneider Electric's Zelio Logic smart relays, including compact and modular options, I/O extension modules, communication interfaces, and programming software. Features product specifications, selection guides, and technical information.</p>
<p>Modules logiques Zelio Logic</p> <p>Catalogue Septembre 2018</p>  <p>Schneider Electric</p>	<p>Schneider Electric Zelio Logic Modules Catalogue</p> <p>Comprehensive catalogue of Schneider Electric Zelio Logic modules, detailing compact and modular controllers, extensions, communication interfaces, and analog converters. Includes programming software features, application examples, and technical specifications for industrial automation.</p>
 <p>Catalog January 2022</p> <p>Zelio Logic</p> <p>Smart relays</p> <p>Life is On Schneider Electric</p>	<p>Schneider Electric Zelio Logic Smart Relays Catalog - Automation Solutions</p> <p>Explore the Schneider Electric Zelio Logic smart relays catalog. Discover compact and modular solutions for simple automation systems, featuring easy programming, flexibility, and advanced communication options. Find technical specifications, references, and selection guides.</p>
<p>Product data sheet TM221CE24R</p>  <p>High performance Modicon M221 24 IO with Ethernet</p>	<p>Schneider Electric TM221CE24R Modicon M221 Logic Controller Technical Data</p> <p>Detailed technical specifications, features, environmental resistance, and connectivity for the Schneider Electric TM221CE24R Modicon M221 logic controller with 24 IO and Ethernet.</p>

Technical datasheet for the Schneider Electric Modicon TM3 discrete I/O module, model TM3DM8R. This module features 8 I/O channels, including 4 discrete inputs and 4 relay outputs, operating on 24V DC. It details specifications, environmental data, ordering information, and mounting instructions.