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TTTHTBCCN-E19FF25C

Generic LSJK-SCR Single-Phase Cycle Controller RS485 Trigger (220V) - Instruction Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Generic LSJK-SCR Single-Phase Cycle Controller RS485 Trigger. This device is designed for precise control of single-phase loads using various input signals, including RS485 communication.

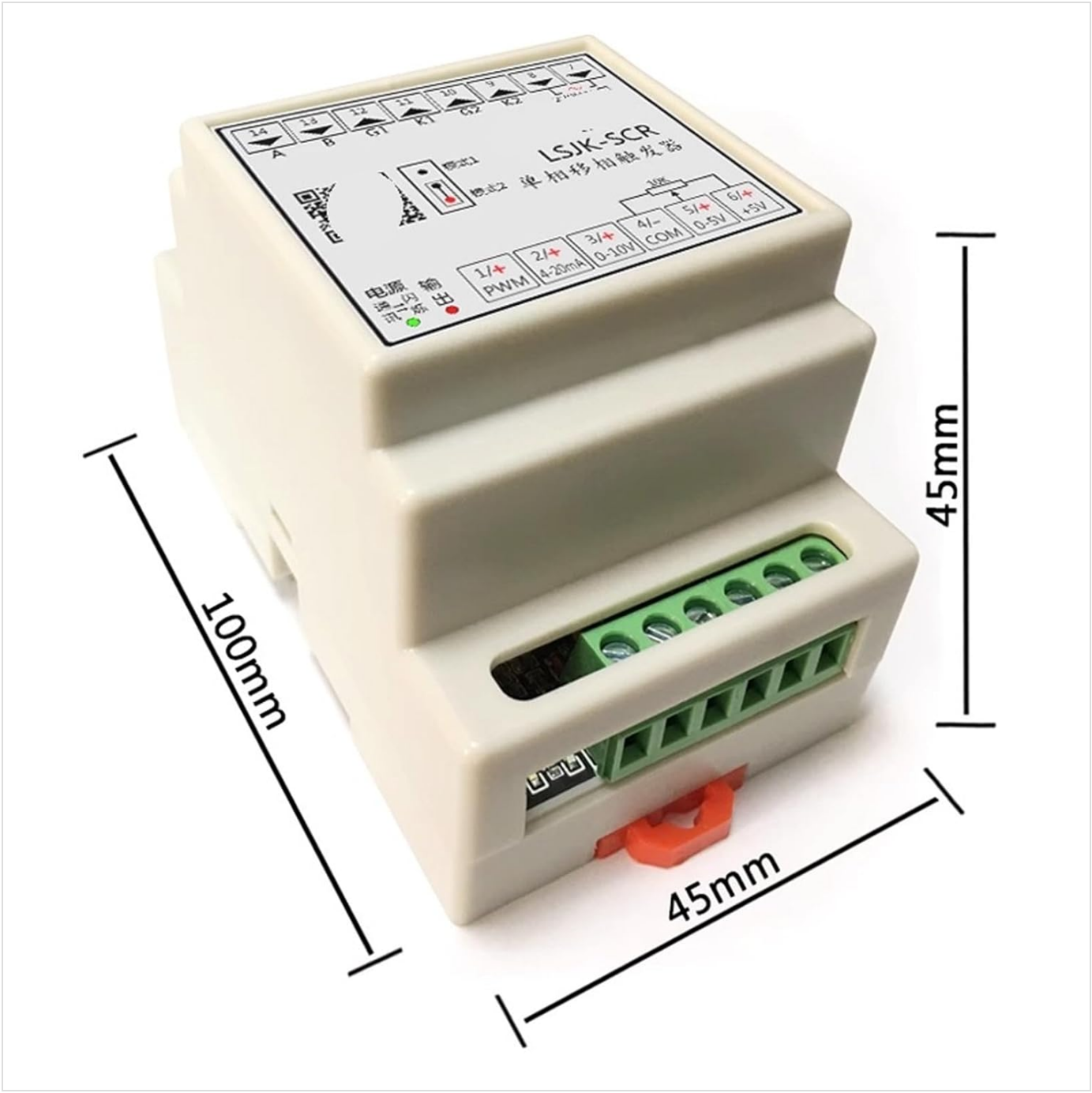
2. Safety Information

WARNING: Risk of Electric Shock!

- Always disconnect power before installation, wiring, or maintenance.
- Installation and servicing should only be performed by qualified personnel.
- Ensure proper grounding to prevent electrical hazards.
- Do not operate the device in wet or damp conditions.
- Verify all wiring connections are secure and correct before applying power.

3. Product Overview

The LSJK-SCR Single-Phase Cycle Controller is a robust industrial control module. It features multiple control input options and RS485 communication for integration into various automation systems. Its compact design allows for efficient use of space.



This image displays the LSJK-SCR Single-Phase Cycle Controller, highlighting its compact dimensions of 100mm in length, 45mm in width, and 45mm in height. The top panel shows connection labels for power input, output, PWM, 4-20mA, 0-10V, COM, 0-5V, and +5V, along with an RS485 trigger mode indicator.

4. Features

- Single-phase cycle control for resistive or inductive loads.
- RS485 communication interface for remote control and monitoring.
- Multiple analog input control options: PWM, 4-20mA, 0-10V, 0-5V.
- Compact and durable design.
- LED indicators for power and output status.

5. Specifications

Parameter	Value
Brand	Generic
Model	TTTHTBCCN-E19FF25C
Input Voltage	220V AC
Control Inputs	PWM, 4-20mA, 0-10V, 0-5V, RS485
Dimensions (L x W x H)	100mm x 45mm x 45mm
ASIN	B0GY7S25JF

6. Setup

6.1. Installation

The controller is designed for DIN rail mounting or panel mounting. Ensure adequate ventilation around the unit to prevent overheating. Mount the device in a dry, dust-free environment, away from direct sunlight or excessive vibration.

6.2. Wiring Connections

Refer to the labels on the device and the diagram below for correct wiring. All connections should be made with appropriate gauge wire and securely fastened.

- **Power Input ( ):** Connect the 220V AC power supply to the designated terminals.
- **Load Output ( ):** Connect the single-phase load to be controlled to these terminals.
- **Control Inputs:**
  - **1/+ (PWM):** Pulse Width Modulation input.
  - **2/+ (4-20mA):** Current loop input.
  - **3/4 (0-10V):** Voltage input.
  - **4/- (COM):** Common terminal for analog inputs.
  - **5/+ (0-5V):** Voltage input.
  - **6/+ (+5V):** +5V auxiliary power output for external sensors/potentiometers.
- **RS485 ( ):** Connect the RS485 communication lines (A and B) to the corresponding terminals for serial communication.

Note: *Ensure correct polarity for all DC control signals and RS485 connections.*

7. Operating Instructions

The LSJK-SCR controller operates by modulating the power delivered to a single-phase load based on the selected control input. The " " (Mode of single-phase phase-shift trigger) indicates its primary function is phase-shift control.

7.1. Control Input Selection

The controller supports various analog control signals. The specific input used will depend on your application and external control device. Connect only one analog control signal at a time to avoid conflicts.

- **PWM Control:** Apply a Pulse Width Modulation signal to the PWM input. The duty cycle of the PWM signal will determine the output power.
- **4-20mA Control:** Connect a 4-20mA current source to the 4-20mA input. 4mA typically corresponds to minimum

output, and 20mA to maximum output.

- **0-10V Control:** Apply a 0-10V DC voltage signal. 0V typically corresponds to minimum output, and 10V to maximum output.
- **0-5V Control:** Apply a 0-5V DC voltage signal. 0V typically corresponds to minimum output, and 5V to maximum output.

7.2. RS485 Communication

For advanced control and integration, the RS485 interface allows for digital communication. This enables remote triggering, parameter setting, and status monitoring. Refer to the specific communication protocol documentation (not included in this manual) for details on RS485 commands and data formats.

Note: *The device likely uses a standard Modbus RTU protocol over RS485, but this should be confirmed with the manufacturer's detailed protocol specification.*

8. Maintenance

The LSJK-SCR controller is designed for reliable operation with minimal maintenance. However, periodic checks are recommended:

- **Cleaning:** Keep the unit free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Connections:** Periodically inspect all wiring connections to ensure they remain tight and free from corrosion.
- **Ventilation:** Ensure that ventilation openings are not obstructed.

9. Troubleshooting

Problem	Possible Cause	Solution
No power indication (LEDs off)	No input power; incorrect wiring; faulty power supply.	Check power connections; verify power supply voltage; inspect wiring for breaks.
No output to load	No control signal; incorrect control mode; faulty load; internal fault.	Verify control signal presence and type; check load continuity; consult manufacturer if internal fault suspected.
Output is erratic or unstable	Noisy control signal; improper grounding; load incompatibility.	Ensure shielded cables for control signals; verify proper grounding; check load specifications.
RS485 communication failure	Incorrect wiring (A/B swapped); incorrect baud rate/protocol; termination issues.	Check A/B wiring; verify communication settings; ensure proper termination resistors are used if required.

If troubleshooting steps do not resolve the issue, contact the seller or a qualified technician for assistance.

10. Warranty and Support

Specific warranty details for this product are not provided in the available information. For warranty claims or technical support, please contact the seller or the manufacturer directly with your purchase details and product model number.

Model: TTTHTBCCN-E19FF25C

ASIN: B0GY7S25JF

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