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Lenel LNL-1200-S3

Lenel LNL-1200-S3 Series 3 Output Control Module Board

USER MANUAL

Product Overview

The Lenel LNL-1200-S3 Series 3 Output Control Module (OCM) is designed to communicate directly with an Intelligent System Controller (ISC) via either 2-wire or 4-wire RS-485 communication. Each OCM operates as an individually-addressed device, counting as a single device on all Intelligent System Controllers. This module supports both 12 VDC and 24 VDC power inputs. It includes dedicated input contacts for tamper detection and power failure status. The OCM features 16 programmable output relays, which can be configured for either fail-safe or fail-secure operation. Each relay is capable of responding to 'On', 'Off', and 'Pulse' commands from OnGuard software.



A detailed view of the Lenel LNL-1200-S3 Series 3 Output Control Module Board, showing its various components, connectors, and relays.

Key Features

- 16 Form-C 5 A, 30 VDC contacts for load switching.
- Supports 12 or 24 VDC input power.
- Includes 2 dedicated digital inputs for tamper and power failure status.
- RS-485 communication, supporting multidropped (2-wire or 4-wire RS-485) configurations.
- Up to 16 OCMs can be connected per Intelligent System Controller.
- Features on-board termination jumpers for easy configuration.
- DIP switch-selectable addressing for unique device identification.
- Status LEDs provide visual feedback for host communication, heartbeat, and relay status.
- Supports elevator control for up to 128 floors.
- Suitable as a direct replacement for Series 1 and Series 2 boards.

Setup and Installation

Before installation, ensure all power is disconnected from the Intelligent System Controller (ISC) and the LNL-1200-S3 module. Mount the module securely in a suitable enclosure, away from sources of electrical interference. Connect the module to the ISC using either a 2-wire or 4-wire RS-485 communication cable, ensuring correct polarity. Apply 12 VDC or 24 VDC power to the module, observing the specified voltage and current requirements. Configure the module's address using the DIP switches, ensuring each OCM has a unique address within the system. Set the termination jumpers

as required for your RS-485 network configuration. Connect the dedicated tamper and power failure input contacts to their respective sensors if used. Finally, connect the 16 output relays to the devices they will control, configuring them for fail-safe or fail-secure operation as needed by the application.

Operation

Once installed and powered, the LNL-1200-S3 OCM communicates with the Intelligent System Controller (ISC) to receive commands and report status. The module's 16 output relays are controlled by the OnGuard software, allowing for 'On', 'Off', and 'Pulse' commands to manage connected devices. Monitor the status LEDs on the board to verify communication with the host, confirm the heartbeat, and observe the status of individual relays. The dedicated tamper and power failure inputs provide real-time status to the ISC, enabling immediate response to security or power events. Ensure the OnGuard software is correctly configured to recognize the OCM's address and manage its relays according to your system's requirements, including elevator control functions if applicable.

Maintenance

The LNL-1200-S3 Output Control Module is designed for reliable operation with minimal maintenance. Periodically inspect the module and its connections for any signs of wear, damage, or loose wiring. Ensure the operating environment is clean, dry, and within the specified temperature and humidity ranges to prevent component degradation. Regularly check the status LEDs to confirm normal operation and communication. If the module is part of a critical security system, consider scheduled functional tests of the relays and input contacts to ensure they respond as expected. For cleaning, use a soft, dry cloth; avoid using liquids or abrasive cleaners. Do not attempt to repair the module yourself; contact qualified service personnel for any issues beyond basic troubleshooting.

Troubleshooting

- **No Power/Module Inactive:** Check the 12/24 VDC power supply connections and ensure the power source is active. Verify the power failure input contacts are not indicating a fault.
- **No Communication with ISC:** Check the RS-485 wiring for correct polarity and secure connections. Verify the DIP switch address is unique and correctly set. Ensure termination jumpers are configured appropriately for the network. Observe the communication status LEDs for activity.
- **Relays Not Responding:** Confirm that the module is communicating with the ISC. Check the OnGuard software for correct relay commands and configuration (fail-safe/fail-secure). Inspect the wiring to the controlled devices.
- **Tamper Alarm:** Verify the tamper input contact wiring and the status of the connected tamper switch. Ensure the switch is closed when the enclosure is secure.
- **Intermittent Issues:** Check for potential sources of electrical interference. Ensure all connections are tight and secure. Review system logs in OnGuard for error messages related to the OCM.

If issues persist after performing these troubleshooting steps, consult the LenelS2 technical support or your system integrator.

Technical Specifications

Feature	Detail
Brand	Lenel
Model Name	LNL-1200-S3
Model Number	LNL-1200-S3

Feature	Detail
Manufacturer	LENEL
Compatible Devices	Intelligent System Controller
Number of Ports	16 (Relay Outputs)
Input Power	12 or 24 VDC
Relay Contacts	16 Form-C, 5 A, 30 VDC
Communication Interface	RS-485 (2-wire or 4-wire)
Dedicated Inputs	2 (Tamper, Power Failure)
Dimensions (L x W x H)	8"L x 6"W x 0.69"H
Platform	Linux (System Controller)
UPC	643690809739

Warranty and Support

For information regarding product warranty, technical support, or service, please refer to the official documentation provided with your purchase or visit the LenelS2 website. It is recommended to contact an authorized LenelS2 dealer or certified technician for any service or repair needs to ensure proper functionality and to maintain warranty validity.

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