

# LNL-1300

## Lenel Single Reader Interface Module

### Overview

Lenel Systems International offers a Single Reader Interface (SRI) module for business access control solutions. Access control card readers, keypads, or readers with keypads that use standard Wiegand Data1/Data0 or Clock/Data communications are supported. Lock, unlock, and facility code offline access modes are supported on all readers connected to the SRI. Each SRI supports up to eight different card formats as well as issue codes for both magnetic and Wiegand card formats.

The SRI provides a vital link between the Intelligent System Controller (ISC) and the card reader attached to the interface. As many as 32 SRI modules can be multi-dropped using RS-485 2-wire communication up to 4,000 feet per port away from the ISC. Each SRI module is individually addressed for increased reporting capabilities with Lenel OnGuard Access Control software applications. The SRI includes two inputs that support normally open, normally closed, supervised, and non-supervised circuits. Two output relays support fail-safe or fail-secure operation.

### Features and Functionality

- 12 VDC power supply
- Reader communications (Clock/Data or Wiegand Data1/Data0) - more than 100 different readers approved for use
- Two Form-C relay outputs (5A Door Strike and 1A Aux relays)
- Up to 16 different card formats (8 card and 8 asset)
- Issue code support
- Door contact Open or Closed, Supervised or Non-supervised
- REX push-button monitor - Supervised or Non-supervised
- Strike Control output
- Bicolor or two wire status LED support
- Beeper control
- Plastic mounting channel
- Support for offline reader access mode
- Elevator Control, support for 64 floors
- UL 294 listed and CE approved



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## Mechanical and Architectural Characteristics and Wiring

### Requirements

The hardware is configured using a series of several jumpers. The acceptable power supply is 12 VDC. Locate the power source as close as possible to the LNL-1300. Use a minimum of 18 AWG (1 twisted pair) wiring for the power supply.

### Communications

Communication to the Intelligent System Controller is via an RS-485 (2-wire) interface. The ISC allows multi-drop communication on a single port up to 4000 feet each. Use twisted pair(s) with a minimum of 24 AWG and a shield for the communications. The 2-wire communications with end-of-line termination are jumper-selectable.

Recommended cabling for RS-485 (2-wire) communications is Belden 9841 or equivalent.  
Recommended plenum cabling for RS-485 communications is Belden 88102 or equivalent.

### Alarm Inputs

Two supervised inputs are normally used for REX (Request to EXit) and door status. Normally, the door contact is closed and REX is open. The inputs must be shorted if they are not used.

### Alarm Outputs

Two Form-C relay contacts, one (1) 5 A at 30 VDC normally for door strike and one (1) 1 A at 30 VDC auxiliary relay.

### Note

To minimize premature failure of the contact and to increase system reliability, contact protection circuits **MUST BE USED**. The protection circuits must be located as close to the load as possible (within 12 inches, or 30 cm), as circuit effectiveness decreases at greater distances.

## Options

### Power Supplies and Enclosures

#### LNL-AL400ULX

Lenel UL Listed 4A, 110 VAC Power Supply - 12 VDC or 24 VDC 4A output (switch selectable), 120 VAC input, continuous supply current with enclosure (12" x 16" x 4.5"), lock and open frame transformer, tamper switch, UPS capable (Battery Optional) (UL Approved)

#### LNL-AL600ULX-4CB6

Lenel UL Listed Power Supply - 12 VDC or 24 VDC 6A output (switch selectable), 120 VAC (1.6 amps) input, continuous supply current with enclosure (18" x 24" x 4.5"), lock and open frame transformer, tamper switch, UPS capable (Battery Optional)

#### ABT-12

Battery Kit - 12 VDC, 12 AH battery (PS-12120)

## Specifications

\* The SRI is for use in low voltage, class 2 circuit only.

### Primary Power (DC):

DC input: 12 VDC  $\pm$  15%. 125 mA

### Reader TTL Power:

DC Output: 12 VDC 80 mA Max

### Environmental:

Temperature: Operating: 0° to +70° C (32° to 158° F)  
Storage: -55° to +85° C (-67° to 185° F)

Humidity: 0 to 95% RHNC

### Mechanical:

Dimension: 2.9 in. (74 mm) W x 4.25 in. (108 mm) L  
x 1.4 in. (36 mm) H

Weight: 4 oz. (120 g) nominal

### Approvals:

UL 294 & UL 1076 Listed



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