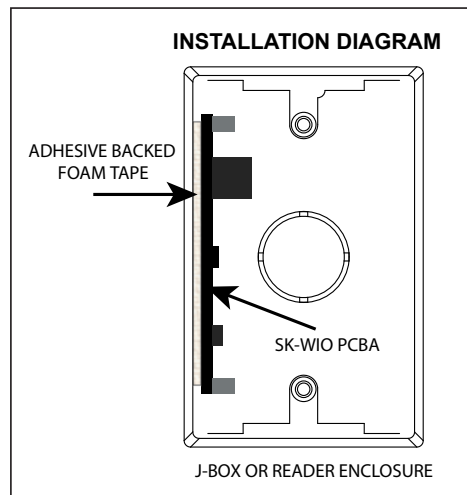


# SK-WIO-1 Wiegand Interface Instructions

## Installation Steps for SK-WIO-1 Wiegand Interface

This unit is designed to connect Wiegand output devices, such as long range card readers (RK-WL), keypads (SK-KPM/S) and biometric readers and non-Secura Key readers to the Peripheral Bus of Secura Key's NOVA.16 Access Control Panel. (It will also work in any system using Secura Key's SR Protocol over an RS-485 bus.) It receives data and power from the NOVA.16 panel, and has all the input and output connections for a controlled door or gate, including a Wiegand Input, latch and aux relay outputs, and two "alarm" inputs (for REX, Door Monitor, etc.)

1. If mounting the unit outdoors, install it in a water-tight enclosure. The unit can also be mounted inside a standard 2-S electrical junction box.
2. Adhere the foam tape to the back of the circuit board to prevent circuit components from coming in contact with any metal, such as the enclosure walls, which could short circuit the unit.
3. Run field wiring to the enclosure or junction box and feed through conduit openings.
4. Connect RS-485 data, latch and aux relays, inputs and outputs, and connect the Wiegand cable from the card reader or other Wiegand output device.
5. Connect DC power after all other connections are made.
6. Use the adhesive-backed foam tape (supplied with the unit) to tape it to the side or back of the enclosure.



## SPECIFICATIONS

### POWER REQUIREMENTS

12-14VDC, 100 mA max.  
Use reader power from NOVA.16 or RK-PS 12VDC 500 mA supply

### INPUTS AND OUTPUTS

**Latch Relay:** 10A @ 200VAC, 8A @ 30VDC

**Aux Relay:** 2A @ 30 VDC, 0.5A @ 125 VAC

Cable Type: 18/2, 250 ft. (76.2 m)

**Inputs 1 & 2:** Ground to Activate

Cable Type: 2 cond. 22-24 AWG, Shielded, 250 ft. (76.2 m)

**Wiegand:** SIA Standard Interface

Cable Type: 4-7 cond. depending on inputs used, 22-24 AWG, Shielded, 500 ft. (152.4 m)

### ENVIRONMENT

**Ambient Temperature:** -40° to +70° C (-40° to +158° F)

Humidity – 0-95% Non-condensing

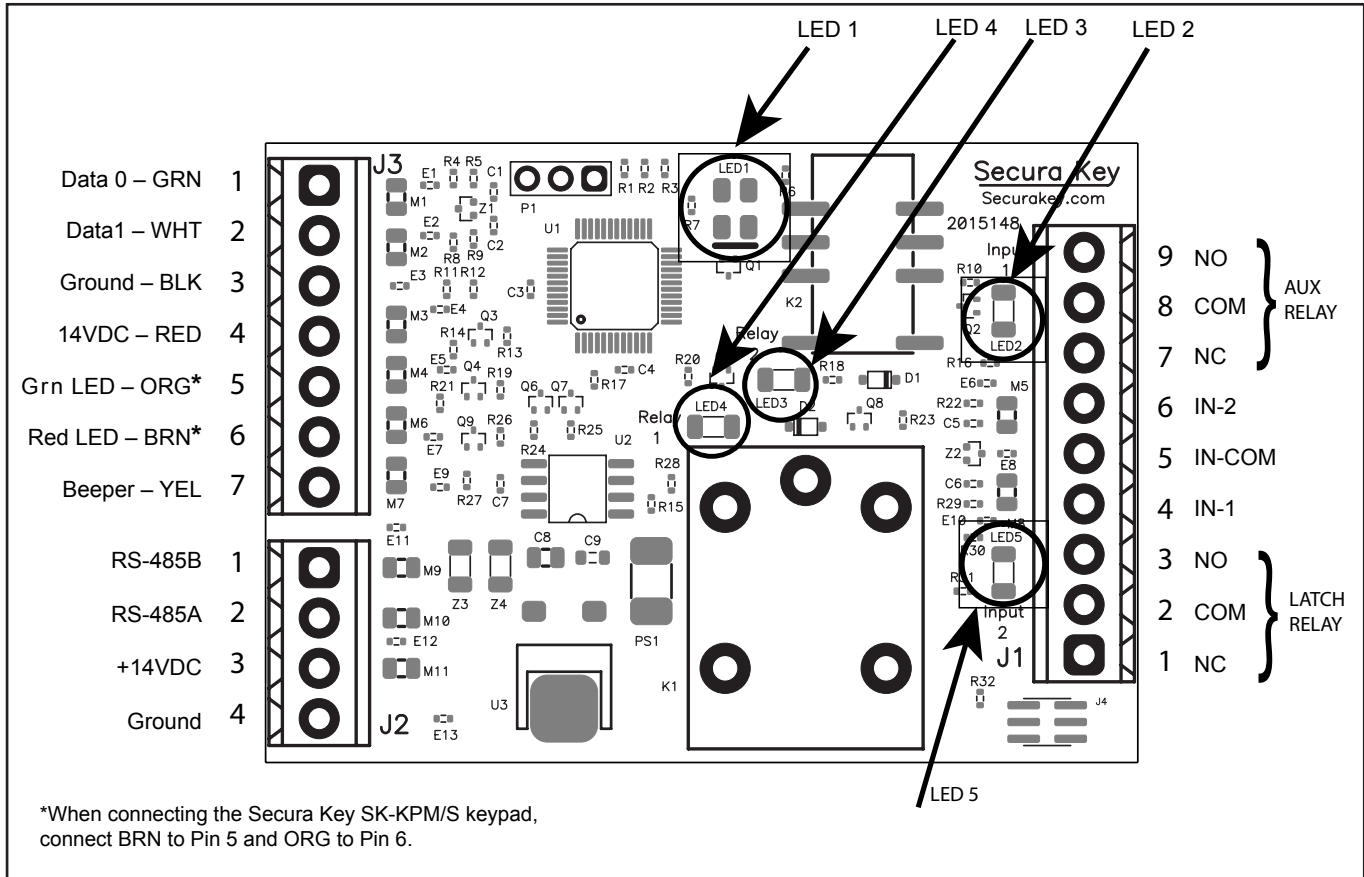
### COMMUNICATIONS

RS 485 – Host Driven SR Protocol

Cable Type – 2 twisted pair, 22-24 AWG or CAT 5, 5e or 6, 4000 ft. (1219 m) total system

## INDICATORS

- LED1 – **CPU Status/Power/Com** OK = Green Blink; RS485 Communications= Red Blink
- LED2 – **Input 1:** Active = Green
- LED3 – **Aux Relay:** Active = Blue
- LED 4 – **Latch Relay:** Active = Blue
- LED 5 – **Input 2:** Active = Green

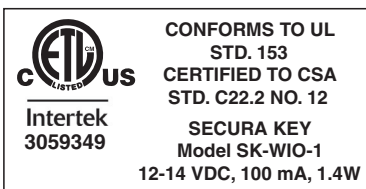


## INSTRUCTION TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate this equipment.



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RoHS

