



SSWFX Design Series XTreme Keypad Instructions

Note: This product is designed to be installed and serviced by security and lock industry professionals.

Specifications

Keypad Case Dimensions:

5¹/₈" L x 3³/₈" W x 5⁵/₈" D

Electrical:

Voltage: 5 – 12 VDC

Current (max): 15mA

Environmental:

Temperature: -20° F to 130° F
For Indoor or Outdoor Use



Features

- Vandal Resistant Metal Case
- Sealed for Indoor or Outdoor Applications
- No Moving Parts
- Touch Sensitive Piezo Keys
- LED's for Relay Status Indication
- Surface Mount
- Rated for Greater than One Million Key Cycles

Applications

- Heavy Traffic Areas
- Rough Service Environments
- Low Profile

Description:

Combining elegant looks and flush mount design in a ruggedized vandal resistant case, IEI's Design Series XTreme keypad can be utilized for almost any application. Designed to perform in high traffic and rough duty environments, IEI Design Series XTreme keypad has solid state, touch sensitive piezo keys surrounded by and aesthetically appealing protective metal case. Encapsulated electronics make the Design Series XTreme keypad suitable for indoor or outdoor installations.

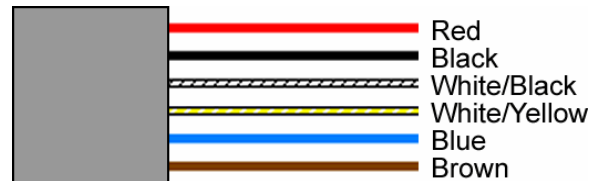
Basic Operation:

To gain access through the door enter your code (1-6 digits) followed by the * key on the keypad.

Packing List:

- (1) SSWFX Keypad
- (1) Six-Conductor Wire Harness
- (2) 6-32 x 1¹/₂ Machine Screws
- (2) # 6 1¹/₂ Sheet Metal Screws
- (1) 1¹¹/₆₄" Allen Wrench
- (1) Anti-Oxidant Grease Pack
- (1) SSWFX Installation/Programming Manual

Wire Harness Configuration:



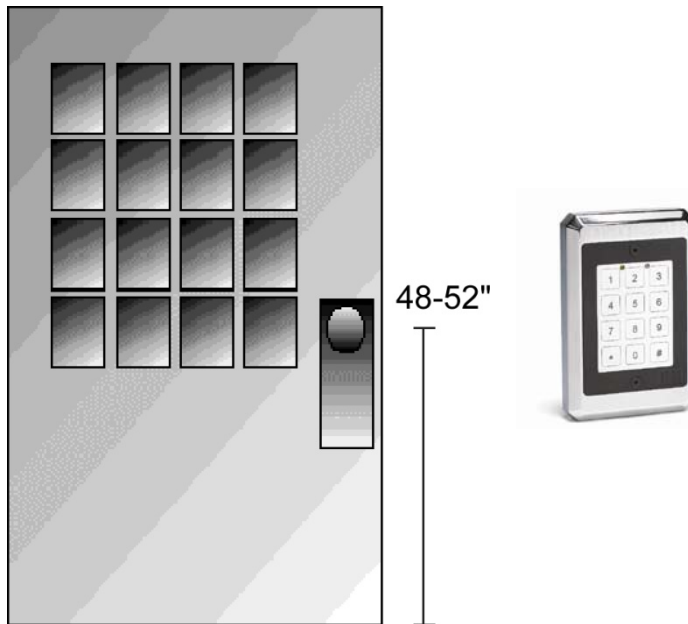
Pin	Wire Color	Signal Name
1	Red	Power (+)
2	Black	Power (-)
3	White/Black	Data 0
4	White/Yellow	Data 1
5	Blue	LED1
6	Brown	Not Used

SSWFX Keypad Installation Procedure:

- Step 1:** If you are mounting the keypad directly to a wall, drill a 3/4" hole into the mounting surface to allow the wire harness connector and wires to fit through.
- Step 2:** On the keypad end, strip back the insulator from the wire and tape the drain wire (shield) to the jacket. Now connect the four wires to the 6-conductor wire harness provided. The wire harness plugs into the 6-position connector on the keypad. At the other end of your wire run, strip back the insulator from the wire but **do not** tape the drain wire to the jacket. The drain wire **must** be connected to ground at the controller end. When using IEI Secured Series product (such as a Max or MiniMax), connect the drain wire to a fast-tab connector on the backplane. Refer to the IEI Secured Series Max or MiniMax manual for details.
- Step 3:** Finally mount the SSWFX keypad onto the mounting surface using the provided #6 screws. Do not over-tighten the screws, which may result in damage.

Keypad Mounting Height

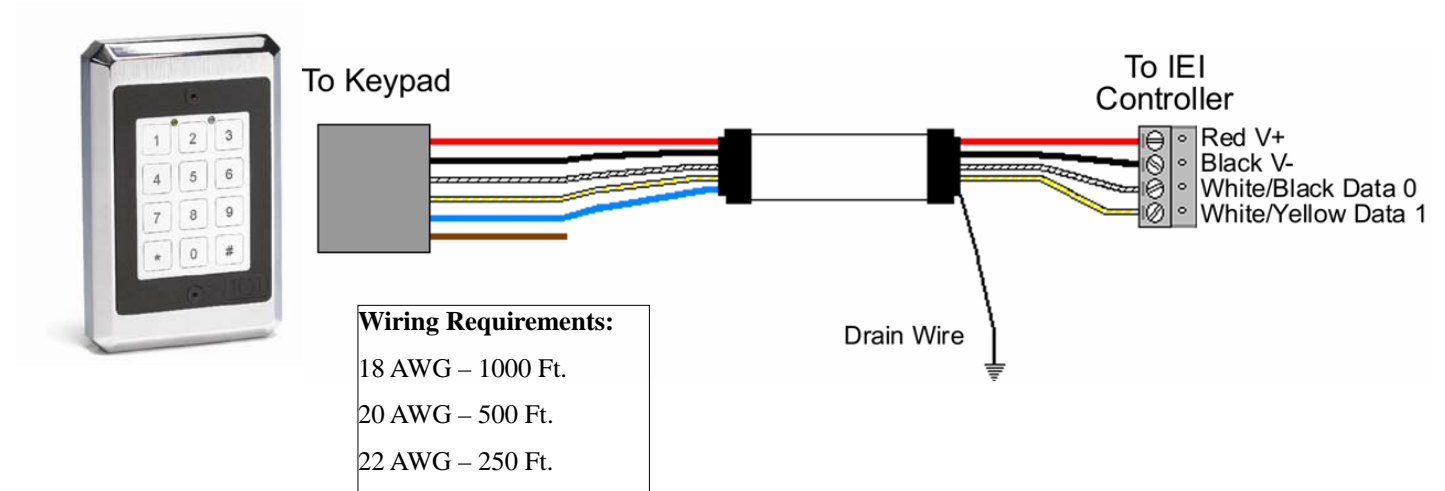
Mounting height can vary depending on requirements. An appropriate range is typically between 48 and 52 inches on center off the floor.



SSWFX Design Series XTreme Keypad Instructions

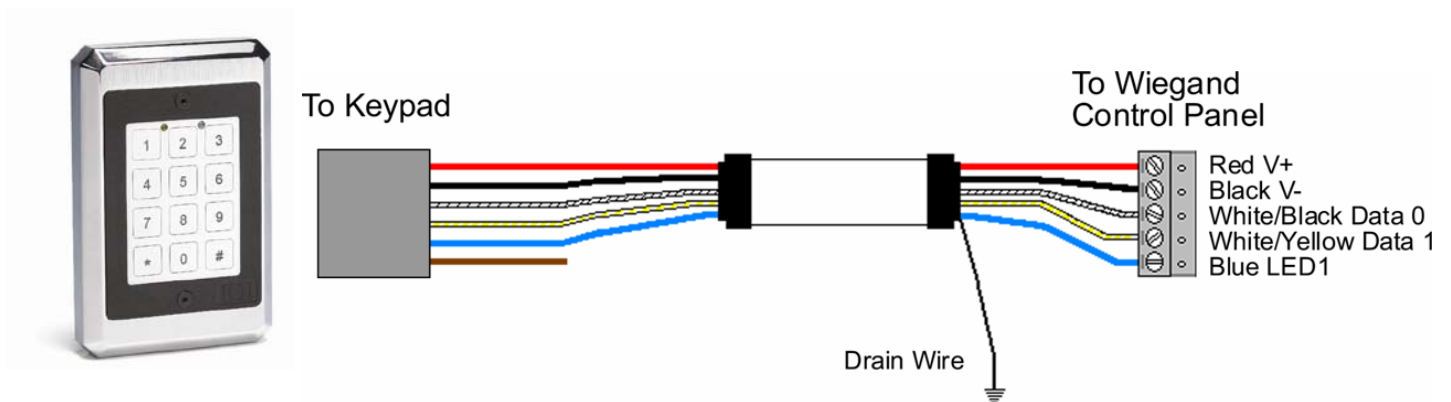
Wiring the SSWFX to the IEI Secured Series Door Control Module (DCM)

The connection between the SSWFX keypad and an IEI Secured Series Door Control Module requires a 4-conductor, stranded wire with overall foil shield. The 6-conductor wire harness from the keypad connects to terminal strip TS5 on the Door Control Module. Connect the red, black, white/black and white/yellow wires to matching terminal on the Door Control Module (the terminals are labeled with the wire color). Refer to the wire lengths below. As mentioned in step 2 on page 2, the drain wire **must** be attached to a fast-tab on the Max or MiniMax backplane.



Wiring the SSWFX to the a third party Wiegand Access Control Panel

The connection between the SSWFX keypad and a Wiegand Access Control Panel requires a 6-conductor, stranded wire with overall foil shield. Connect the red wire to V+, the black wire to V-, white/black wire to Data 0, white/yellow wire to Data 1 and the blue wire to the LED control connection. The drain wire **must** be connected to ground at the controller end.



Programming the SSWFX Keypad

The SSWFX keypad has its own local programming options. All user codes and other access control features are programmed into the control system, either the IEI Secured Series products or a third party Wiegand Access Control System. Refer to those product's documentation for programming instructions. The programming options chart below shows all the programming commands available in the SSWFX.

To program the SSWFX you first must enter program mode.

To enter program mode enter the following on the keypad: **099 # program code *** (default program code is 6789).

Programming Options Chart

Command/Action	Keys to Enter/Details	
Command 90 Change Local Program Code	90 # 0 # 0 # new code * new code * (default = 6789)	
Command 91 Set/Clear Keypad Options (options below, defaults in bold)	91 # option # set/clear # **	
Option	Clear	Set
0 – Visual Keypress Feedback	0 = Disabled	1 = Enabled
1 – Audio Keypress Feedback	0 = Disabled	1 = Enabled
3 – Front End Output Selection	0 = Secured Series Mode	1 = Wiegand Mode
4 – Secured Series IN/OUT Event Recording	0 = Record IN Event	1 = Records OUT Event
5 – Wiegand Red LED Enable	0 = Disabled	1 = Enabled
6 – Wiegand Red LED Active State	0 = Active Low	1 = Active High
7 – Wiegand Green LED Enable	0 = Disabled	1 = Enabled
8 – Wiegand Green LED Active State	0 = Active Low	1 = Active High

Note: Auto-Entry is not available in this model.

SSWFX Design Series XTreme Keypad Instructions
Programming Options Chart - Continued

Command/Action	Keys to Enter/Details	
Command 92 Program Keypad Parameters	92 # parameter # value #	
Parameter	Value	
1 – Wiegand Format	1-8 (default = 1 , 26 bit – see Wiegand format chart below)	
2 – Interpulse Spacing	1-255 (default = 32, 640µS ; 20µS increments)	
3 – Pulse Width	1-255 (default = 8, 160µS ; 20µS Increments)	
Command 93 Program Wiegand Site and Group ID	93 # ID Type # ID Value # **	
ID Type	ID Value	
0 – Site ID	See Wiegand format chart below (default = 0)	
1 – Group ID	See Wiegand format chart below (default = 0)	
Command 96 Reset Keypad to Default Settings	Secured Series Front End Mode	96 # 0 # 0 # **
	26-Bit Wiegand Front End Mode	96 # 1 # 1 # **
Exit Program Mode	Press the * Key	

Wiegand Format Chart

Format Value	Wiegand Format	Largest PIN Value	Largest Site Value	Largest Group Value
1	26 bit	65535	255	N/A
2	28 bit	32767	255	N/A
3	29 bit	524287	255	N/A
4	30 bit	65535	255	15
5	31 bit	65535	255	31
6	32 bit	8191	2047	63
7	36 bit	1048575	255	N/A
8	29 bit	524287	255	N/A

LED Indications

LED State	Description
Red Solid	Door Locked
Green Solid	Door Unlocked
Yellow Solid	Programming Error
Yellow Flashing Slowly (single flash)	Controller Program Mode
Yellow Flashing Slowly (double flash)	Front End Program Mode
Yellow Momentary Flash (key press)	Visual Keypress Feedback

Testing the Keypad

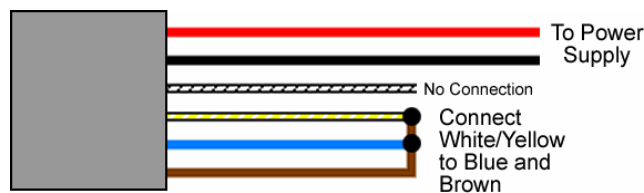
After installing the keypad, IEI recommends that you perform the keypad self-test once a year, to ensure that the keypad is working properly.

To perform the self-test, with the unit powered up, press the following keys on the keypad: **7890#123456***

- If all 12 key presses are accepted, the keypad enters self-test mode.
- The LEDs alternate three times followed by the sounder beeping three times.
- When finished the yellow LED starts flickering rapidly.
- Press * to clear.

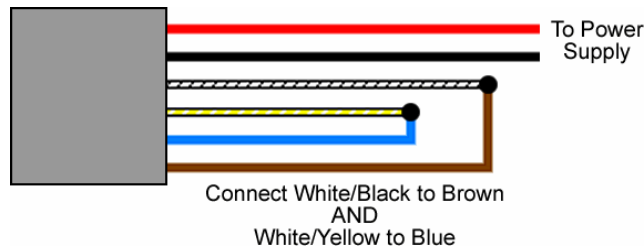
Program Mode Loopback Connection

If you've forgotten the local program code, use the following loopback connection to enter program mode. Power down the unit, short the wires in the configuration illustrated, then power the unit back up. The yellow LED should be flashing. Now change your local program code or reset the unit. Power the keypad down and reconnected the wire harness in the original configuration.



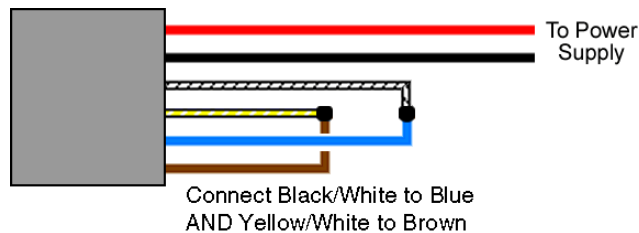
Secured Series Front End Default Loopback Connection

The following loopback connection allows you to default the keypad in Secured Series front end mode. Power down the unit, short the wires in the configuration illustrated, then power the unit back up. After you hear the three beeps, remove power and reconnect the wires in the proper configuration.



Wiegand Front End Default Loopback Connection

The following loopback connection allows you to default the keypad in Wiegand front end mode. Power down the unit, short the wires in the configuration illustrated, then power the unit back up. After you hear the three beeps, remove power and reconnect the wires in the proper configuration.



Linear Limited Warranty

This Linear product is warranted against defects in material and workmanship for twenty four (24) months. This warranty extends only to wholesale customers who buy direct from Linear or through Linear's normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Linear LLC for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until the warranty expires. **This Linear LLC Warranty is in lieu of all other warranties express or implied.**

All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.



USA & Canada (800) 421-1587 & (800) 392-0123
(760) 438-7000 - Toll Free FAX (800) 468-1340
www.linearcorp.com