

Model CV-634PR Everswitch Proximity Reader Plus Keypad Installation Instructions



Output formats: 26 bit Wiegand with programmable site code

Power Supply: 5 to 12 VDC

Power Consumption: Max 150 mA

Transmitter/Receiver frequency: 125Khz

Mounting: Universal (single gang box)

Environment: IP68 ; 100% relative humidity

Operating Temperature: - 20 to + 70°C

Dimensions: 120 x 90 x 20mm (4.72" x 3.54" x .79")
Anti-tamper Optical protection

Certifications: Complies with FCC Part 15

OPERATION MODES:

Model CV-634PR is equipped with 2 electronically interlocked devices - the Proximity Reader and the Piezoelectric Keypad.

It supports the following operation modes:

1. **Prox + Pin.** Present Prox card. The unit will read the content and send it over the Data wires to the host. Enter PIN code. The unit will send each digit over the same Data wires to the host. The Keypad and the Prox reader are interlocked so that when one is functioning the other is inhibited until the data is transmitted.
2. **Prox Only.** The prox electronics is independently communicating via Data wires.

3. **Keypad Only.** The keypad electronics is independently communicating via Data wires..

Verification

Apply power to the unit. During the first 5 seconds it is possible to reprogram the Site code (see instructions on next page). The unit will activate the buzzer and the Yellow LED 3 times. At the same time the RED or the Green LED will come ON depending on the Central Computer setup.

Present a valid HID encrypted card at 5 cm (2") distance maximum. The unit will activate the Buzzer and the Yellow Led once.

Enter any combination of PIN code up to 65534. The unit will activate the Buzzer and the Yellow Led with each pressed key.

Wiring

COLOR	FUNCTION	ELECTRICAL FUNCTION
RED	Input Voltage	5 to 12 VDC
BLACK	Ground	
GREEN	Data 0	Open collector 1Kohm pull-up to internal +5V
WHITE	Data 1	Open collector 1Kohm pull-up to internal +5V
BROWN	LED Input	No Voltage
BLUE	CCTV output	Open collector 0,250 A activated with each key for 30 sec
VIOLET	Housing Ground	
ORANGE	Buffered Input	
GREY	Tamper Output	Open collector 0,100 A "Low" when light sensed

26 BIT WIEGAND SPECIFICATIONS:

The following WIEGAND output is sent each time the # (enter) key is pressed.

	P	S	S	S	S	S	S	S	N	N	N	N	N	N	N	N	N	N	P	
BIT	1	2							9	10									25	26
BIT	1 is an even parity for the following 12 bits. The sum of bits 1-13 is even.																			
BITS	2-9 are the programmable SITE CODE. While pressing * during the first 3 seconds on power up it is possible to program the site code. Any number from 000 to 255 is possible.																			
BITS	10-25 this is the number entered prior to pressing # (enter). Leading 0's are added as required. Bit 10 is most significant.																			
BIT	26 Odd parity over previous 12 bits. The sum of bits 14-26 is odd.																			

EXAMPLE: A card code of 123 entered:
 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1 1 0 1 1 1
 (site code 004)

The data is sent at 2 msec per bit with a pulse duration of 70 µsec

A buzzer beeps with each key press.

Note: Camden Piezo Proximity readers *plus* Keypad are programmed with default Site Code "000". The maximum Site Code is 255.

Example to set site code to 100. Disconnect the power supply for a minimum of 10 seconds. Connect the power supply, and the unit will start beeping. During the first 5 seconds perform the following:

Enter * *The keypad enters programming mode, the red LED flashes.*

Enter 100 # *The site code of 100 is assigned.*

- Blue Wire** - PRESSING any key on the keypad will generate a 30 second 0.25 amp intermittent duty grounding output.
- Orange Wire** - When the Hold Line, Orange wire, is pulled "low", any codes entered on the keypad are stored in the buffer. When the Hold Line is released to logic "high" – the buffered code data is sent.
- Grey Wire** - When the photodiode senses ambient light the Grey wire is pulled "LOW"

An error code is generated by any of the following:

- Pressing the # key with no preceding digits;
- Pressing any number of only zero's prior to pressing the # key, or;
- Pressing 65,535 or any number above 65,535.
An Error Code will send all binary 1's to your panel.

DO NOT Program your panel to accept code number 65,535.



Push Buttons



Keypads



Strikes



Magnetic Locks



Key Switches



Relays & Timers



Access Control



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