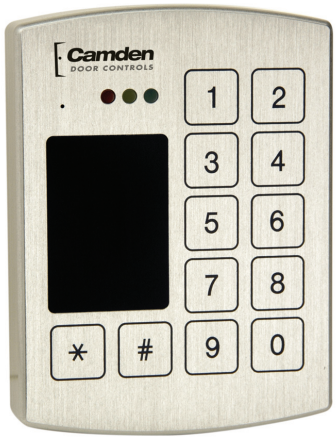
inVISION

Camden DOOR CONTROLS

Model CV-6348PR
Piezo Proximity Reader Plus 8 Bit Keypad
Installation Instructions



Output formats: Card output: Wiegand, PIN output: 8 Bit Burst

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 + 70ºC

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

Certifications: Complies with FCC Part 15

OPERATION MODES:

Model CV-6348PR is equipped with 2 electronically interlocked devices. The Proximity Reader and the Piezoelectric Keypad.

This keypad 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.

Verification

Apply power to the unit. During the first 5 seconds it is possible to reprogram the Site code (see instructions). 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:

When the LED control input is pulled low, the GREEN LED will be ON and the RED LED will be OFF. When the input goes high the RED LED is ON and the GREEN LED is OFF. The RED or GREEN LED will flash with each key press. The LED control input is pulled to the internal +5v with a 2.2K resistor.

The data is sent at 2 millisecond. per bit with a pulse duration of 70 µsec. A Buzzer beeps with each key press.

Data Format

PIN data in 8 Bit burst output format:

Each Key press generates the defined 8 bit Output as shown:

KEY	OUTPUT	KEY	OUTPUT
0	11110000	6	10010110
1	11100001	7	10000111
2	11010010	8	01111000
3	11000011	9	01101001
4	10110100	*	01011010
5	10100101	#	01001011

Card data 26 WIEGAND output format.

PSSSSSSS NNNNNNNNNNNNNNNN 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 F/C the card presented from 000 to 255.

BITS 10-25 this is the card number presented. 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 00000100 0000000001111011 1 (F/C 004)

The data is sent at 2 msec per bit with a pulse duration of 70 µsec. A Buzzer beeps each time card is presented.

1. **Blue Wire -** PRESSING any key on the keypad will generate a 30 second 0.25 amp intermittent duty grounding output.
2. **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.
2. **Grey Wire -** When the photodiode senses ambient light the Grey wire is pulled "LOW". An error code is generated by any of the following:

   a) Pressing the # key with no preceding digits;

   b) Pressing any number of only zero's prior to pressing the # key, or;

   c) 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

Camden DOOR CONTROLS
5502 Timberlea Blvd.,
Mississauga, ON Canada
L4W 2T7

www.camdencontrols.com
Toll Free: 1.877.226.3369

File: CV-6348PR Instructions..indd- Rev1
Revised: July 4th, 2014

Part No: 40-82B043