KE-265

Keyless Entry® Access Control System

Installation and Operations Manual

ESSEX ELECTRONICS INCORPORATED
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ESSEX ELECTRONICS, INC.

KE-265 Series

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Revision D
This documentation is applicable to the KE-265 with Rev. C on the date code label. (Located on the control module circuit board). This documentation is also applicable to prior revisions except where noted.

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Introduction

Overview

The KE-265 is an easy to program, easy to use, stand-alone Keyless Entry® system with features suitable for basic access control requirements. Providing either a voltage output or dry contact closure, the KE-265 is designed to control any fail-safe or fail-secure electric locking device.

The KE-265 features one master code and five user codes. Two relay outputs are available to provide a variety of access control configurations including single door operation with an auxiliary output for a CCTV/Light Controller, a Gate/Garage Door controller or Doorbell activation or the KE-265 can be configured for two door operation.

System Specifications

Input Requirements:	12 to 24V AC/DC
Standby Current Draw:	12V ➔ 10 mA 24V ➔ 25 mA
Outputs:	2 SPDT Relay contacts at 6 amps (120VAC) Voltage or Dry Contact Fail Safe or Fail Secure Relay Configuration
Programmable Output: (Door Open Time)	1 to 120 seconds Default ➔ 5 seconds
Latching:	Manual (Toggle On/Off)
# of User Codes:	6 Codes (1 Master, 5 User)
Code Length:	3 to 8 Digits
Default Master Code:	1-3-5-7-9
Tamper Alarm:	25 Incorrect Key Presses
Access Code Protection:	Non-Volatile Memory
Keypad Operating Environment:	- 40° C to + 70° C (- 40° F to + 160° F) 100 % Relative Humidity
Keypad Dimensions: 5 Pad Non Illuminated 5 Pad Illuminated 12-Pad 3x4 Thinline 2x6	 KP-5S, KP-5SL ➔ 6 ⅝" x 2 ¼" x ½" KP-5DI, KP-5SI ➔ 6 ½" x 1½" x ⅞" KP-34S, KP-34K, KP-34B ➔ 5 ⅛" x 3 ⅜" x 7/16" KP-26TS, KP-26TB, KP-26TI, KP-26TR ➔ 7 ⅛" x 1 ¾" x ¾"
Control Module Operating Environment:	- 40° C to + 49° C (- 40° C to + 120 ° F)
Control Module Dimensions:	7½“ x 5½“ x 2½“

Input Requirements

The KE-265 accepts 12 to 24 volts AC/DC. An optional battery charging module and rechargeable Gel Cells are available to keep the system operational for up to 24 hours during a power interruption. System current draw (maximum):

Standby: 10mA at 12 volts, 25mA at 24 volts
During Operation: **.**25 amps max (with illuminated Keypad)

⊗**IMPORTANT:** The maximum current draw allowed is 1 amp. (3 amps with battery back-up for fail-secure applications only.) Check the specifications of your locking device. Make sure that the locking device and the KE-265 (**.**25 amps) combined draw less than 1 amp. For locking devices that draw more current, a separate power supply is required. (See Appendix B – Page 24)

🗐 Note: If connecting DC, make the connections to “DC IN/OUT” instead of “12-24V AC/DC IN” (see Circuit Board Layout – Page 23). Make sure the polarity is correct.

Output Capabilities

The KE-265 provides two SPDT dry contact relays (rated at 6 amps at 120 VAC). Each relay can be configured to perform one of many different functions depending on the specific access control requirement. User Authorization to control each relay is determined by Setting Relay Options (see System Hardware Setup ➔ page 10). Each relay can be configured for one of the following options:

1. Voltage Output – For any Fail Safe or Fail Secure Locking Device
2. Dry Contact Output – For control of Gate Operator or Garage Door
3. CCTV or Light Controller – First key press triggers a 10 second output
4. Doorbell – Press ∗ at the Keypad to trigger a 1 second output for a doorbell (not included). This function is only available with a 12 Pad 3x4 or Thinline 2x6.
5. Auxiliary Output – Momentary or Manual Control of an electronic device.

Keypad Options

All Essex Keypads are designed to perform reliably in even the most extreme environmental conditions. Operating temperatures can range from -40°C to +70°C (-40°F to 160°F). The KE-265 is compatible with any of the following Keypad styles/configurations:

KP-34S
KP-34B
KP-34K

KP-5S
KP-5SL

KP-26TS
KP-26TB
KP-26TI
KP-26TR

KP-5SI
KP-5DI

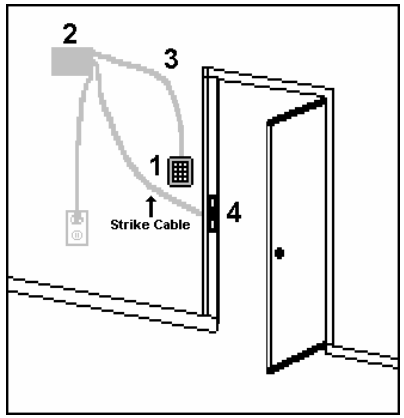
Part Number *	Description
KP-5S	5-Pad Stainless Steel
KP-5SL	5-Pad Stainless Steel w/ LED
KP-5DI	5-Pad Duranodic Illuminated
KP-5SI	5-Pad Stainless Illuminated
KP-34S	12-Pad 3x4 w/ Stainless Steel Bezel
KP-34B	12-Pad 3x4 w/ Brass-Finished Bezel
KP-34K	12-Pad 3x4 w/ Black Bezel
KP-26TS	Thinline 2x6 w/ Stainless Steel Overlay
KP-26TB	Thinline 2x6 w/ Brass Overlay
KP-26TI	Thinline 2x6 w/ Black Lexan® Illuminated Overlay
KP-26TR	Thinline 2x6 w/ Braille Overlay

* Keypad Part Number is located on the back of the Keypad

Preparing for Installation

System Components

There are four primary components to be installed:



Typical Installation

1. The Keypad should be mounted on the wall adjacent to the door. It should be on the same side as the door strike and about 4 feet above the floor.

2. The Control Module should be mounted inside the building near a power source. Typically the control module is hidden in a false ceiling or closet. The control module must be located in an environmentally controlled area where the temperature remains between – 40°C and +49°C (-40° F and 125° F.)

3. The Wiring Cable connects the keypad to the control module. It is important not to locate the cable adjacent to any wiring that carries line voltage. Included with the system is a 15-foot CL2 12 conductor jacketed wiring cable of which only 11 wires are used. If the Control Module must be located further than 15 feet from the Keypad, additional cable may be spliced. The maximum distance between the Keypad and the Control Module must not exceed 1,000 feet (250 feet for an Illuminated 5-Pad). For runs over 200 feet, 18 gauge wire should be used. Under 200 feet, 20 gauge is acceptable.

4. The Electric Strike/Other Locking Device(not included) connects to the KE-265's Main Relay output via a strike cable. (See Appendix B – Typical Wiring Diagrams. Page 24)

The Installation Procedure

Required Tools

You will need the following tools:

- Medium sized, Phillips head screwdriver
- 1/8" standard screwdriver
- Drill
- 7/8" or 1" (25mm) drill bit
- 1/2" (16mm) drill bit
- 5/32" (4mm) drill bit (For 12-Pad 3x4)
- 3/16" (6mm) drill bit (For 5-Pads & Thinline 2x6)

Prepare the Keypad for Installation

There are different procedures for mounting each Keypad. Locate the Keypad part number on the back of the Keypad and follow appropriate mounting instructions below. Keypad templates are included with each Keypad (except KP-34's) to assist with the installation.

Mounting Instructions 5 Pad Non Illuminated: KP-5S and KP-5SL

1. Select flat mounting surface 3" X 7".
2. Use "Template A" (included with the Keypad) to mark locations of holes A, B, and C.
3. Locate and drill the large hole marked "A". Hole must be at least 7/8" (22mm) diameter.
4. Hold the Keypad against the wall with the connector through hole "A". Check markings for hole "B". Re-mark if required. If using plastic anchors, drill hole "B" using 3/16" (6mm) bit. NOTE: Plastic anchors are provided for some mounting applications. If anchors are not used, holes "B" and "C" must be smaller than 3/16".
5. Using the template, verify the hole marked "C" is aligned and then drill hole "C".
6. Install the metal mounting bracket into hole "C" with the screw provided.
7. Do NOT mount Keypad at this time.
8. Proceed to Install the Wiring Cable.

Mounting Instructions 5 Pad Illuminated: KP-5DI and KP-5SI

1. Select a flat surface 1 ¾" X 7".
2. Use "Template B" (included with the Keypad) to mark holes A, B and C.
3. Locate and drill the large hole marked "A". Hole must be at least 7/8" (22mm) diameter.
4. Check markings for holes "B" and "C". Re-mark if required. Drill holes "B" and "C" using 3/16" (6mm) bit.
5. Install the metal mounting bracket with the screws provided.

6. Do NOT mount Keypad at this time.
7. Proceed to Install the Wiring Cable.

Mounting Instructions 12 Pad 3x4: KP-34S, KP-34B or KP-34K

The 3x4 keypad is designed to mount to a single gang switchbox or on a wall, pedestal or any flat surface of at least 3 ½ by 5 ¼". The composition of the mounting surface will determine the fastening method required. If mounting to a surface other than a switchbox:

1. Select a flat surface (3 ½" by 5 ¼") near the door where you wish to install the keypad.
2. Drill the large hole for the Keypad connector using a 7/8" (25mm) drill bit.
3. Place the connector on the back of the keypad in the large hole. Mark the keypad mounting holes.
4. Drill clearance holes in accordance with fastening method used. (If mounting to wood, drill small pilot holes and use #6 flat head wood screws provided. If mounting to metal, drill two 5/32" clearance holes for #6 flat head machine screws provided.)
5. Do NOT mount the keypad at this time.
6. Proceed to Install the Wiring Cable.

Mounting Instructions Thinline 2x6: KP-26TS, KP-26TI, KP-26TB or KP-26TR

The Thinline 2x6 is designed for mullion mount applications. It can also be mounted on a wall, pedestal or any flat surface of at least 1 ¾" by 7". The composition of the mounting surface will determine the fastening method required:

1. Select a flat surface (1 ¾ " by 7") near the door where you wish to install the keypad.
2. Using the Thinline template, mark location of holes.
3. Drill the large hole using a 1" (25mm) drill bit.
4. Place the connector on the back of the keypad in the large hole to verify that the mounting holes are aligned. Make adjustments if necessary.
5. Drill mounting holes in accordance with fastening method used. If mounting to wood, drill small pilot holes and use #6 flat head wood screws provided. If mounting to metal, drill two 5/32" clearance holes for #6 flat head machine screws provided.
6. Do NOT mount the keypad at this time.
7. Proceed to Install the Wiring Cable.

Install the Wiring Cable

1. Drill a ½" hole in the inside wall or ceiling where you want the cable to come through.
2. Pull the cable through the hole so the connector end goes to the keypad. Route it so there is minimal cable at the keypad.

🗐 Note: Supplied with the system is a 12-conductor cable designed to connect the keypad to the control module. You will also need a three-conductor cable (not included) to connect the control module to the electric strike or other locking device.

Mount the Keypad

1. Attach the wiring connector to the Keypad.
2. Attach the Keypad to the wall.
3. Do NOT attach the Keypad labels until the system is tested.

Prepare the Door for the Electric Strike

Follow these instructions only if you are using an electric strike to unlock the door. If you are using the main relay to activate a garage door, automatic gate, etc., skip this section. The new electric strike should be checked to verify compatibility with existing door hardware prior to installation.

1. Remove existing strike.
2. Follow directions included with the strike for preparing the doorjamb.
3. Do NOT mount the strike at this time.

Installing the Control Module

1. Connect the Wiring Cable to Terminal Strip "A" following the color sequence on the circuit board. (Appendix A – Page 23) NOTE: If the wiring cable has been cut shorter than 15 feet, the tan wire will become exposed. The tan wire is NOT used with the KE-265.
2. Connect 12 to 24 Volts AC to Terminal Strip "B" to screws marked "12-24V AC/DC IN". If using an Essex external AC Adaptor, connect BLUE and BROWN to the 12-24V input screws. Connect GREEN to the "EARTH" screw on Terminal Strip "A". Plug adapter into a grounded (three terminal) receptacle.

🗐 Note: If connecting DC, make the connections to "DC IN/OUT" instead of "12-24V AC/DC IN". Make sure the polarity is correct.

⊗ **IMPORTANT:** The "EARTH" screw terminal on Terminal Strip "A" should be connected to a true earth ground for proper system protection and operation.

Connecting the Locking Device

Connect the electric locking device to Terminal Strip "B" as outlined in the Typical Wiring Diagram (Appendix B – Page 24). Any 3 conductor, 18 gauge wire can be used to connect the Control Module to the Locking Device. Included with each system are two MOV's (metal oxide varistor). The function of the MOV is to absorb any inductive kickback from the locking device, protecting the circuit board. The MOV's have been installed under the relay contact screws and can be left there for normal "FAIL SECURE" lock operation. For "FAIL SAFE" locks, move one leg from the "N.O." screw to the "N.C." screw (see Appendix B). **If possible, install the MOV closer to the electric lock.** If switching voltages higher than 36V, remove the MOV. To provide proper grounding, connect the 3rd wire from the body of the locking device to the "EARTH" screw on Terminal "A"

Battery Backup

Although battery backup is NOT required for User Code retention, you may wish to connect an optional Essex battery charging module (part no. BC-01) and rechargeable Gel Cells to the KE-265 to provide operation during a power interruption.

🗐 Note: Although the system will operate on DC input, DC will not charge the batteries for backup. If you require battery back up, make sure your input is AC. Rechargeable batteries must be used for back up.

System Hardware Setup

Remote By-Pass

In some cases, it may be necessary to control the door from a remote area such as a security station or reception desk. The KE-265 provides for a Remote By-Pass (Exit Switch) or Keypad override. This can be accomplished by connecting a normally open switch to the "REMOTE" screw terminals on the circuit board (Appendix A – Page 23). When the Remote By-Pass switch is depressed, the contact bypasses the Keypad and activates the relay tied to "1, 2 UNLOCK" (see Setting Relay Options). The relay is activated for the same time length as the programmed Door Open Time (see Programming Door Open Time).

Anti-Tailgating

Some security applications require stricter door monitoring. Anti-tailgating can be accomplished by installing a normally closed door monitor switch to the "DOOR MONITOR" screw terminals on the circuit board (Appendix A). This switch may be the output of a latch monitor switch, a monitor maglock or an alarm switch that senses door movement. When this switch opens, it will relock the door. (Note: If a door monitor switch is NOT used, you must jump the "MONITOR" screw terminals with the factory installed wire.)

Setting Relay Options

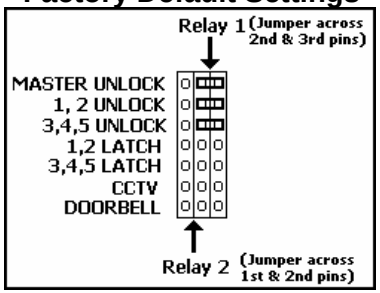
The KE-265 provides a variety of options for configuring both relays. These options include User Unlock Authorization, Latching Authorization and CCTV/Doorbell setup. Configuring these options is accomplished by setting jumpers on the Control Module circuit board. To set relay options, first locate the relay jumpers (3 rows of 7 pins). Next to each set of three pins, there is a description of the option to be configured. Placing jumpers across the 1st & 2nd pins, the 2nd & 3rd pins or no pins at all determines how each option is configured.

To set an Option for **Relay #1** ➔ Place jumper across 2nd & 3rd pins.
To set an Option for **Relay #2** ➔ Place jumper across 1st & 2nd pins.
To set an Option for **No Relay** ➔ Don't place jumper across 1st & 2nd or 2nd & 3rd pins.

The Factory Default Settings are shown here:

1. All User Unlock Authorization is configured for Relay #1. (Master Code and Users 1,2 and Users 3,4,5).
2. No Code is set for Latching Authorization of either relay.
3. Neither CCTV nor DOORBELL is active.

Factory Default Settings

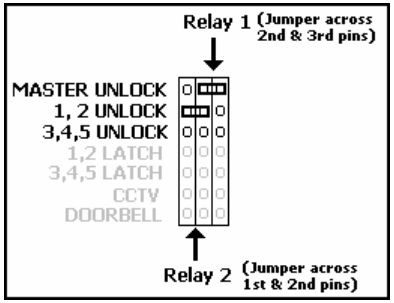


User Unlock Authorization

Placing jumpers across the first 3 sets of pins (MASTER UNLOCK, 1,2 UNLOCK or 3,4,5 UNLOCK) determines which relay (if any) each User Group is authorized to activate.

When a valid code is entered, the door will remain unlocked for the programmed Door Open Time. (See Programming Door Open Time)

Ex: User Unlock Authorization



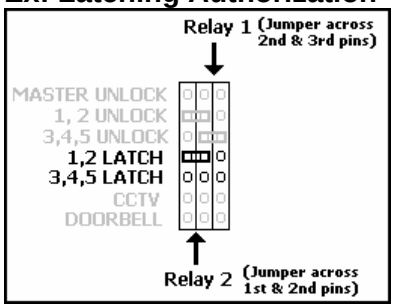
Example:

1. Placing a jumper across the 2nd and 3rd pins of the "MASTER UNLOCK" option allows the master code to activate (unlock) Relay #1.
2. Placing a jumper across the 1st and 2nd pins of the "1,2 UNLOCK" option allows User Code 1 and User Code 2 to activate Relay #2.
3. Leaving a jumper off the "3,4,5 UNLOCK" option prevents User Code 3, User Code 4 and User Code 5 from activating either relay.

Latching Authorization

Placing jumpers across the 4th and 5th set of pins (1,2 LATCH or 3,4,5 LATCH) determines which relay (if any) each User Group is authorized to manually latch.

Ex: Latching Authorization



How to Latch

When a valid code is entered on the keypad followed by "7", the Latch Authorization relay for that particular User Group will energize and remain energized until a valid code followed by "7" is entered again.

Example:

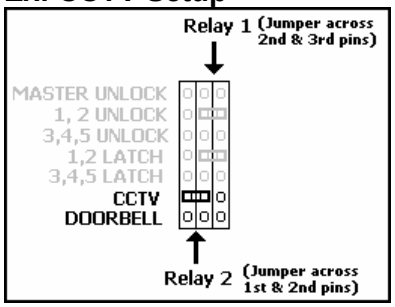
1. Placing a jumper across the 1st and 2nd pins of the "1, 2 LATCH" option allows User 1 and User 2 to Latch Relay #2.
2. Leaving a jumper off the "3,4,5 LATCH" option prevents User 3, User 4 and User 5 from latching either relay.

🗐 Note: Because the Master Code is primarily used to program User codes, the Master Code does not have Latching Authorization.

CCTV/Doorbell Setup

Placing jumpers across the 6th or 7th set of pins (CCTV or DOORBELL) determines which relay (if any) will be used to activate a CCTV or Doorbell.

Ex: CCTV Setup



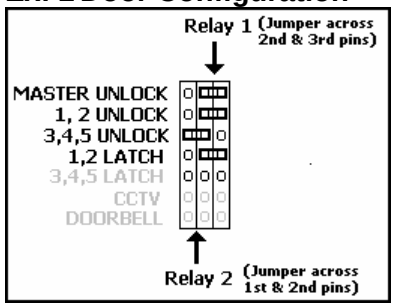
CCTV Operation: If either relay is configured to activate a CCTV, any key press on the Keypad triggers a 10 second output.

Doorbell Operation: If either relay is configured to activate a doorbell, pressing ∗ at the Keypad triggers a 1 second output. (Doorbell only functions with 12-Pad 3x4 or Thinline 2x6)

2nd Door Operation

The KE-265 has been designed to provide 2 door operation with one or more Keypads. With this configuration, certain codes will activate Relay #1 and certain codes will activate Relay #2. (Connect Relay #2 to the 2nd Locking Device)

Ex: 2 Door Configuration



Example:

1. Placing a jumper across the 2nd and 3rd pins of the "MASTER UNLOCK" option allows the master code to activate (unlock) Relay #1.
2. Placing a jumper across the 2nd and 3rd pins of the "1,2 UNLOCK" option allows User Code 1 and User Code 2 to activate (unlock) Relay #1.
3. Placing a jumper across the 1st and 2nd pins of the "3,4,5 UNLOCK" option allows User Code 3, User Code 4 and User Code 5 to activate (unlock) Relay #2
4. In this example, User Code 1 and User Code 2 have also been given Latching Authorization for Relay #1.

🗐 Note: In order for 2 Door configuration to operate correctly, be sure to remove any jumpers across the CCTV option and the Doorbell option.

Tamper Alarm Lockout

A person attempting to gain entry by guessing the code and pushing 25 wrong digits will cause the KE-265 to go into tamper alarm mode. The Keypad will beep constantly for 30 seconds during which time the door will remain locked and no keypad functions can be performed.

System Programming

Overview of System Code Programming

There are TWO levels of codes for the KE-265 system.

1. The Master Code (used to open the door and for programming User Codes)
2. User Codes (used by personnel to open the door)

IMPORTANT: Notes to remember before programming:

1. All codes must be 3 to 8 digits.
2. All codes must be different from each other.
   Note: 5-Pad Keypads have two digits on each pad. The system reads these numbers as the same. For example: 1-3-5-7-9 is the same as 2-4-6-8-0.
3. Do not program codes, which are part of other codes. For example: User Code 1 ➔ 1-2-3-4-5 and User Code 2 ➔ 1-2-3
4. During programming, the system resets after 5 seconds if a number is not entered. Do not let more than 5 seconds elapse between entries or the system will reset and you will have to start over.

Overview of the Master Code

Knowledge of the Master Code is the highest privilege granted to a user of the KE-265 system. There is only one master code, which is used to program each of the 5 User Codes. The factory default Master Code, "1-3-5-7-9", can be used for initial programming but should be changed to a unique 3 to 8 digit code.

The Master Code can be configured to activate either Relay #1 or Relay #2 depending on how the system hardware is set up (see Setting Relay Options ➔ page 10). However, the Master Code cannot be configured to Latch either relay.

Programming the Master Code

To Program/Change the Master Code:

1. Select a 3 to 8 digit code that will be used for the Master Code.

   ___ ___ ___ ___ ___ ___ ___ ___
2. Locate the Control Module, remove the cover and locate the "PROGRAM" switch on the circuit board.
3. Press the PROGRAM switch once *. (The Keypad will beep rapidly 4 times)
4. At the Keypad, enter 1-1-1-9 to open the memory (you will hear three rapid beeps) and immediately enter your new Master code.
   (Do not let more than five seconds elapse between entries or the system will reset!!!)
5. After entering your new code, wait five seconds for the 3 reset beeps.

   * Once the PROGRAM switch has been pressed, you have 2 minutes to begin programming.

Overview of User Codes

There are a total of 5 User codes (also called Secondary Codes) that can be programmed into the KE-265. User Codes can vary in length from 3 to 8 digits. Each User Code is programmed into one of 5 User Locations. These Locations are as follows:

User #		User Location
User Code 1	➔	1-1-1
User Code 2	➔	1-1-3
User Code 3	➔	1-1-5
User Code 4	➔	1-1-7
User Code 5	➔	1-1-9

Once a User Code has been programmed into a User Location, the User Code can be easily changed or deleted from the system (see Programming User Codes). Latching and User Code Unlocking Authorization is determined by how each relay is configured. (see Setting Relay Options ➔ page 10)

Programming User Codes

To Program a New User Code or Change an Existing User Code:

1. Choose a new 3 to 8 digit code that will be used for this User Code. ___ ___ ___ ___ ___ ___ ___ ___
2. Decide which User Location to place this User Code (see Overview of User Codes)
3. Enter the Master Code, followed by the User Location (you will hear three rapid beeps) and immediately enter the new User Code. (Do not let more than five seconds elapse between entries or the system will reset!!!)
   Example: 1-3-5-7-9 1-1-1 1-2-3-4
4. After entering your new code, wait five seconds for the 3 reset beeps.

To Delete a User Code

1. Enter the Master Code, followed by the User Location of the User Code you want to delete (you will hear three rapid beeps). Example: 1-3-5-7-9 1-1-1
2. Wait five seconds for the 3 reset beeps (Do not enter <u>any</u> digits until you hear 3 reset beeps)

Programming Door Open Time **Default ➔ 5 seconds**

To Program/Change the Door Open Time for the **Master Code and User Code 1 and 2**:

1. First determine the length of time you wish to program as the Door Open Time for these users. This is the length of time the door will remain open after a valid Master Code, User Code 1 or User Code 2 has been entered into the system.
   🗐 Note: For controlling a garage door or electric gate, you will need to set the door open time to 1 second
2. Locate the Control Module, remove the cover and locate the "PROGRAM" switch on the circuit board.
3. Press the PROGRAM switch once *. (The Keypad will beep rapidly 4 times)
4. At the Keypad, enter 1-1-1-7 to open the memory (you will hear three rapid beeps) and enter a combination of "1's" (for every one second increment) and

"5's" (for every five second increment) that equal your desired Door Open Time. Each valid key press (a "1" or a "5") will generate a double beep. (Do not let more than five seconds elapse between entries or the system will reset!!!)
   Example: "1-1-1-7 5-5-5-1-1" ➔ 17 seconds
5. After entering your Door Open Time, wait five seconds for the 3 reset beeps.

To Program/Change the Door Open Time for **User Code 3,4 and 5**: (Rev B and later)

1. First determine the length of time you wish to program as the Door Open Time for these users. This is the length of time the door will remain open after a valid User Code 3, User Code 4 or User Code 5 has been entered into the system.
   🗐 Note: For controlling a garage door or electric gate, you will need to set the door open time to 1 second.
2. Locate the Control Module, remove the cover and locate the "PROGRAM" switch on the circuit board.
3. Press the PROGRAM switch once *. (The Keypad will beep rapidly 4 times)
4. At the Keypad, enter 1-1-1-5 to open the memory (you will hear three rapid beeps) and enter a combination of "1's" (for every one second increment) and "5's" (for every five second increment) that equal your desired Door Open Time. Each valid key press (a "1" or a "5") will generate a double beep. (Do not let more than five seconds elapse between entries or the system will reset!!!)
   Example: "1-1-1-5 1-1-5" ➔ 7 seconds
5. After entering your Door Open Time, wait five seconds for the 3 reset beeps.

🗐 Notes: * Once the PROGRAM switch has been pressed, you have 2 minutes to begin programming. You will hear a double beep with each valid key press. Once you begin entering the combination of 1's and 5's do not let more than five seconds elapse between entries or the system will reset!!! Maximum Door Open Time is **120 seconds**.

Troubleshooting

These are a few troubleshooting suggestions to help assist with any problems you may experience. If the problem continues or is not answered here, please call Essex technical support at (800) KEYLESS ➔ (800) 539-5377. You can also visit Essex anytime at keyless.com or send email to support@keyless.com.

I Changed or Deleted a code, but the old code still unlocks the door

Remember there are a total of 6 User Codes for the KE-265. Make sure you changed the desired code. If you changed the Master Code, the other User Codes will still work. If in doubt, it is recommended you reprogram the master code and delete all 5 user codes. Then program any new user codes. (See System Programming page 14)

The Keypad beeps normally but the door does not unlock

For a new installation:

1) Check the specifications of your power supply and locking device. (See Input Requirements page 3.)

Note: If you are connecting 12VDC, make the connections to "DC IN/OUT" instead of "12-24V AC/DC IN" (see Circuit Board Layout - Page 23). Make sure polarity is correct.

2) Test the wiring hookup to the primary locking device (the device connected to User Code 1, 2 Unlock). On the control module circuit board, locate and momentarily short the screws for "REMOTE"(See page 23). This will activate the output (same as if you enter a valid programmed code at the Keypad).

If this test does not activate the lock, check the lock wiring (see Typical Wiring Diagrams - page 24). If your wiring is correct, check the KE-265 relay settings (see Setting Relay Options - page 10).

If this test does activate the output (you should hear the relay click and the locking device should unlock), reprogram the Master Code and User Codes. Review Overview of System Code Programming (Page 14).

Remember that all six codes have to be different from each. It is also important not to let more than 5 seconds elapse between button presses or the system will reset and you will have to start over.

For an existing Installation:

There are typically two reasons for code loss: static or inductive kickback. There is no way to determine if the system has been affected by either of these, however, you can reprogram the system codes as described in User Code Programming. It is very important the system is properly grounded and the MOV has been installed, otherwise static and code loss may be an ongoing problem.

The Door opens with the first press on the Keypad

If the unit has just been installed, check the CCTV jumper (see Setting Relay Options – Page 10). If you do not have a CCTV connected to the KE-265, make sure the CCTV jumper is NOT installed across the1st and 2nd pins or the 2nd and 3rd pins.

Keypad is completely dead

Interrupted Power - First check your power supply to see that power has not been cut off. Using a voltmeter, check the incoming voltage on terminal strip “B” (12-24V AC/DC IN). If the voltage reads low, the electric locking device may be drawing too much current. To test, remove the wires to the device and recheck the voltage. If the voltage now reads normal, check the current draw of the locking device and make sure it falls within the system specifications (see Input Requirements – page 3).

Blown Fuse - Check the fuse on the circuit board. The purpose is to protect the power supply and circuitry. If your locking device is drawing too much current or there is a short, the fuse will blow. Replace with a 2 amp slo blo only. A spare fuse is provided in the spare parts kit. Although the fuse may appear intact, it is best to check with a voltmeter.

Keypad beeps all by itself

Constant Beeping - If the beep is consistently every 5 seconds, put a **.**1*uf* 16v (or higher) ceramic capacitor across wires 3 & 10 (black, violet) on terminal strip "A".

Random Beeping - Check for bad circuit ground going to the keypad. Is the black wire from the wiring cable securely fastened to screw #3 on Terminal A? Check for bent pins on the back of the keypad. Also check EARTH ground.

Repairs and Warranty

Repair Policy

Should it be necessary for a component or a system to be returned for repair, it must be accompanied with an RA# (Return Authorization Number) from the factory. All returns must be sent to the factory freight prepaid. Collect shipments will not be accepted at any time. Standard turnaround time is ten (10) working days from the date of receipt. All repairs will be returned UPS Ground (or equivalent). Any other shipping requests or instructions will be at the customer's expense.

At the factory's discretion, warranty repairs will include repair or replacement, update and testing. Returns and repairs out of the warranty period or in warranty with damage not covered under warranty shall be subject to a repair charge. All non-warranty repair freight charges are paid for by the customer. Non-warranty repair charges are returned COD. (Factory Authorized Distributors are subject to standard terms).

A return authorization number may be obtained by calling Essex Electronics Incorporated at (800) 539-5377. Returns should be sent freight prepaid to:

ESSEX ELECTRONICS, INC.
1130 Mark Avenue
Carpinteria, CA 93013-2918
Attn.: RA# _____

5 YEAR LIMITED WARRANTY

Effective Date 3/17/03

Essex Electronics, Incorporated warrants that at the time of original purchase from Essex Electronics, Incorporated, the KEYLESS ENTRY® Coded Access System or KTP Series keypad will be free from defects in workmanship and material, but that the Buyer's remedies under this Warranty shall be limited to the following, running from the date of purchase:

5 Years – Full Warranty Limited to repair or replacement at Seller's election.

This warranty shall apply only if Buyer gives Essex Electronics, Incorporated written notice of the defect, at the address listed below, within five years of the date of sale. No warranty shall extend to any replacement furnished under this warranty beyond the unexpired portion of original part warranty given on the original part or system, which has been replaced. Essex Electronics, Incorporated's liability and Buyer's remedy under this warranty is limited to the repair or replacement at Seller's election of the KEYLESS ENTRY® Coded Access System or KTP Series keypad, or parts thereof, returned to Essex Electronics, Incorporated at Buyer's expense and shown to Essex Electronics, Incorporated's reasonable satisfaction to have been defective.

This express warranty extends only to the original retail or wholesale Buyer and the original place of installation. It does not apply if the KEYLESS ENTRY® Coded Access System or KTP Series keypad, or parts thereof, is installed in violation of the applicable codes or ordinances, or is not installed in accordance with our instructions, is damaged by lightning or Act of God, or is misused, damaged by accident, altered or disconnected. In no event shall Essex Electronics, Incorporated be liable for any damage to persons, property or area surrounding the installation site caused by any malfunction of the KEYLESS ENTRY® Coded Access System or KTP Series keypad.

Each replacement KEYLESS ENTRY® Coded Access System or KTP Series keypad or replacement part to be furnished under this warranty shall be provided for at our factory listed below. We will not pay, nor be responsible for, shipping, transportation or delivery charges, or other cost of removal of a defective KEYLESS ENTRY® Coded Access System or KTP Series keypad or installation of a replacement KEYLESS ENTRY® Coded Access System or KTP Series keypad. The original of any system replaced under this warranty shall become our property, and as such will, at our request, be returned to our factory with transportation charges replaced by the Buyer.

Essex Electronics, Incorporated reserves the right to discontinue a product for any reason, without notice, at any time. If a product that has been discontinued proves defective, within the terms expressed in this Limited Warranty, a substitute product may be provided at the Seller's election, as a replacement for the original discontinued product.

Notice of any defect must be sent to Essex Electronics, Incorporated, 1130 Mark Avenue, Carpinteria, California, 93013, USA and must include the date code of the unit, description of the defect and factory assigned Return Authorization #.

Upon receipt of such notification, Essex Electronics, Incorporated will determine whether to repair or replace. We also reserve the right to have our representative make any inspection or repairs, or furnish replacements.

DISCLAIMER OF WARRANTIES: LIMITATION OF BUYER'S REMEDIES

EXCEPT FOR THE REPAIR OR REPLACEMENT AT SELLER'S OPTION WHICH IS EXPRESSLY SET FORTH ABOVE, ESSEX ELECTRONICS, INCORPORATED EXTENDS NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AND DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR PURPOSE FOR WHICH SOLD, WITH RESPECT TO THE KEYLESS ENTRY CODED ACCESS SYSTEM OR KTP SERIES KEYPAD. EXCEPT FOR THE LIMITED REPAIR OR REPLACEMENT SPECIFIED ABOVE, UNDER NO CIRCUMSTANCES WILL ESSEX ELECTRONICS, INCORPORATED BE LIABLE TO BUYER UNDER OR IN CONNECTION WITH ANY MANUFACTURE OR SALE OF THE KEYLESS ENTRY® CODED ACCESS SYSTEM OR KTP SERIES KEYPAD UNDER ANY TORT, NEGLIGENCE, STRICT LIABILITY, CONTRACT OR OTHER LEGAL OR EQUITABLE THEORY, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR BUYER'S COST OF EFFECTING INSURANCE COVERAGE.

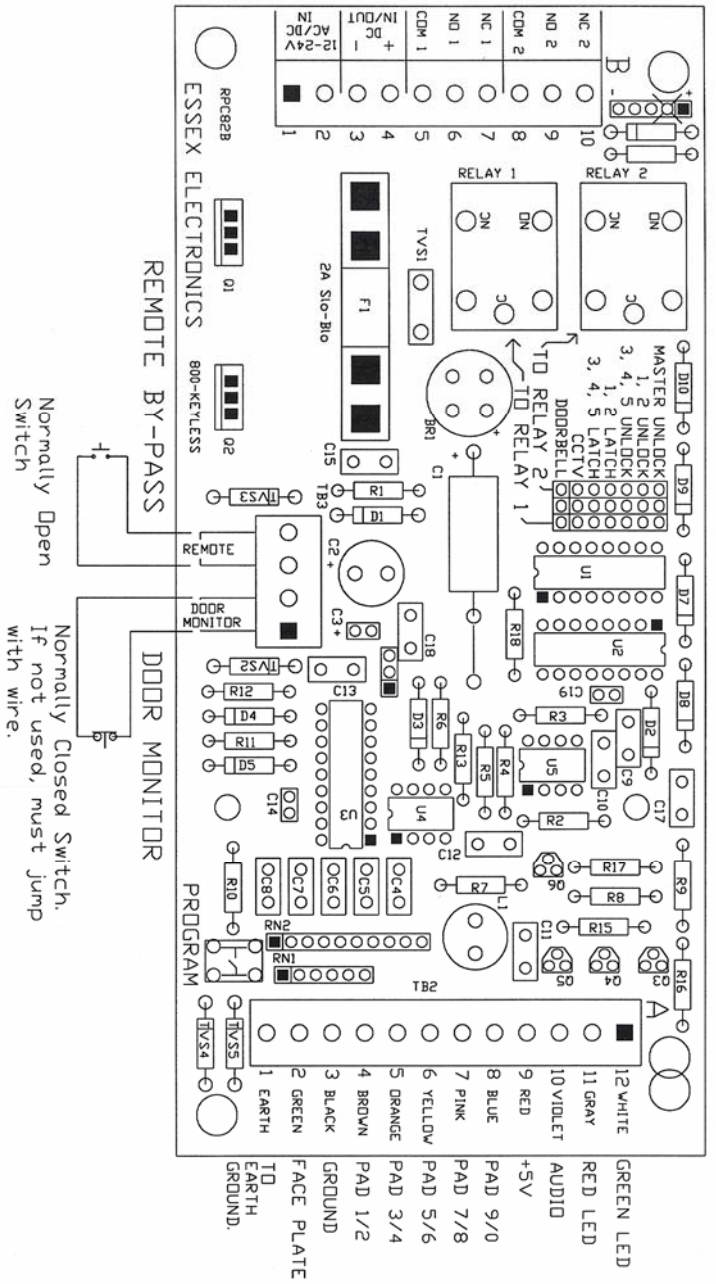
THE FOREGOING LIMITED WARRANTY EXPRESSED HEREIN CONSTITUTES THE SOLE AND ENTIRE WARRANTY WITH RESPECT TO THE KEYLESS ENTRY® CODED ACCESS SYSTEM OR KTP SERIES KEYPAD AND IS IN PLACE OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

THIS WARRANTY MAY NOT BE EXPANDED OR EXTENDED BY ANY ORAL REPRESENTATION, WRITTEN SALES INFORMATION, ADVERTISING, DRAWINGS OR OTHERWISE. ESSEX ELECTRONICS, INCORPORATED IS NOT RESPONSIBLE HEREUNDER FOR INCIDENTAL DAMAGE TO PERSON OR PROPERTY, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE REMEDIES OF THE BUYER SHALL BE LIMITED TO THOSE PROVIDED IN THIS LIMITED WARRANTY TO THE EXCLUSION OF ANY AND ALL OTHER REMEDIES, INCLUDING, WITHOUT LIMITATION, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This Limited Warranty shall be governed by and interpreted in accordance with the California Uniform Commercial Code and by the procedural laws of the State of California. Any lawsuit or other action which arises out of, relates to, or is in connection with the manufacture or sale of the KEYLESS ENTRY® CODED ACCESS SYSTEM OR KTP SERIES KEYPAD shall be governed by California law, and the venue for any such action shall be the Superior Court of the State of California in and for Santa Barbara County, California.

This warranty excludes elevator and vehicle Keyless Entry Access Control Systems. A separate warranty applies to Keyless Entry systems manufactured for these applications.

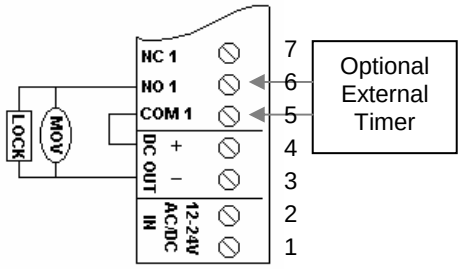
Appendix A – Circuit Board Layout



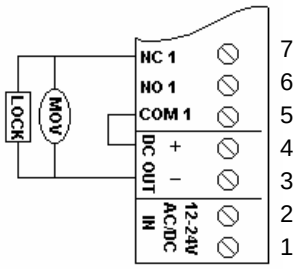
Appendix B- Typical Wiring Diagrams

🗐 Note: Some low current strikes or relays will cause relay chatter due to inductive kickback. Attach MOV across strike or relay to eliminate chatter.

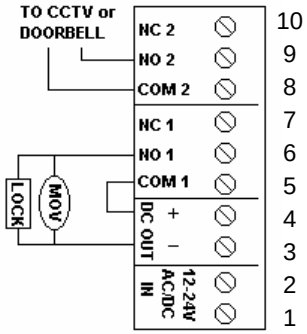
Fail Secure Lock Controlled by KE-265



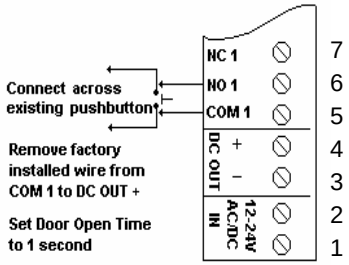
Fail Safe Lock Controlled by KE-265



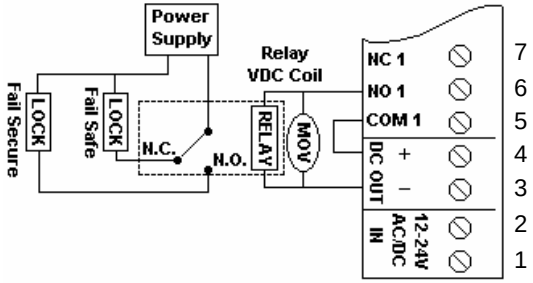
CCTV/DOORBELL and Fail Secure Lock Controlled by KE-265



Garage Door/Gate Drive Controlled by KE-265



Fail Safe or Fail Secure Lock Controlled by KE-265 And Powered by External Power Supply



Notes

Master Code ___ ___ ___ ___ ___ ___ ___ ___ Username _____

User Code 1 ___ ___ ___ ___ ___ ___ ___ ___ Username _____

User Code 2 ___ ___ ___ ___ ___ ___ ___ ___ Username _____

User Code 3 ___ ___ ___ ___ ___ ___ ___ ___ Username _____

User Code 4 ___ ___ ___ ___ ___ ___ ___ ___ Username _____

User Code 5 ___ ___ ___ ___ ___ ___ ___ ___ Username _____