

TOYNE CORPORATION

TOYNE

ACCESS CONTROL SYSTEMS

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Toyne Keypad Instructions

A. Installation and Programming PIN OR Card

1. You need to be very careful about connecting the ribbon cable correctly with the power to the module OFF. The keypad socket is the only 16 pin socket near the center of the board. The ribbon cable has an arrow on each plug. There is a U-shaped notch on the short side of the sockets. Match the arrow on the plug with the notch on the sockets on the module and on the keypad. That is all there is to the connections. Now turn Dip SW#5.
2. The keypad requires a Command level set up as a Keypad level. Program the TZ when you want the keypad to work. With SW#5 on, which is recommended, the Keypad has a different module code. With SW#5 on, the module code is 1x complimented, i.e. the address 01 becomes 11. (For more information on 1x complementing, see the explanation below.) Set up a NEW Security Level for the keypad. Essentially any card number can be a PIN, so you should only validate a few card numbers in this new Security Level for PIN's.
3. The keypad is usually set up for a minimum number of digits (4 or 5). To enter a PIN, key in the number and then press #.
4. Explanation of 1x Complimenting:

The Module's Base address (as set by the rotary switches) is modified by *complementing* the odd-even value of the Most Significant Digit.

If the Base address MSD ends with 0, 2, 4, 6, 8, A, C or E, then the *modified* Keypad address MSD will end with 1, 3, 5, 7, 9, B, D or F, respectively.

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The simplest explanation is as follows,

If the Base Address MSD is Odd, then the [total] Keypad Address will be decremented by 10. Conversely, if the Base Address MSD is Even, then the [total] Keypad Address will be incremented by 10.

Some examples,

Base Address: 01 26 36 53 64 78 5D 8A
Keypad Address: 11 36 26 43 74 68 4D 9A

B. Types of Toye Keypad Systems

There are 5 variations of Toye keypad systems:

1. Card OR PIN Unscrambled
2. Card OR PIN Scrambled
3. Card AND PIN Unscrambled
4. Card AND PIN Scrambled
5. Card AND Pin with Selectable PIN

(1) Above is the default firmware. All others must be special ordered. The scrambled version uses a simple algorithm to make the PIN different from the card number. To determine the PN for each card, you must run a small program. You enter the card number and it lists the scrambled PIN. This program will only run on Win XP or older versions of Windows.

Options (3) thru (5) above are available with the Toye Keypad #4115, or with several PIN-Prox readers. Option (5) requires special firmware AND Software.

Using the PIN Prox Reader

1. This application is for PIN AND Card. The PIN is only required when a Keypad Command Level is active in the system.

To gain access when a Keypad Command Level is active, enter the scrambled PIN plus the # key, and then present the card within 7 seconds. You must use the scrambled PIN derived from each card number using the PIN.exe program