



## Installation Manual – W110 Series

This document is used for **W110-01FX**, **W110-01DX**, **W110-01KX**, **W110-01MX**

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## Operation

Access Cards should be presented to the front of the reader. Optimum read range is achieved when the access card is parallel to the reader face.

LED indicator : The LED is normally controlled by the internal reader firmware. Alternatively, the LED (Green & Red) can be controlled by the access control host panel. When the Access Card is read and the message is transmitted to host panel, the host system will verify the access card and control the LED to show the result. When the reader is ready for access card, the Red LED (power) is on. The Green LED will be turn on when read card successful.

Buzzer : The Buzzer will sound “Bee....” when the reader read card successful.

LCD Display : INP 0 and INP 1 shut to GND for time synchronizing.

Keypad : The standard keypad output is in Wiegand format as an 8-bit output to the controller. Key output in Hex. For more information, please refer to “Documentation for Keypad Format”.

| Keypad Table |    |    |    |    |    |    |    |    |    |    |    |
|--------------|----|----|----|----|----|----|----|----|----|----|----|
| 0            | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | *  | #  |
| F0           | E1 | D2 | C3 | B4 | A5 | 96 | 87 | 78 | 69 | 5A | 4B |

i.e. upper bits are the inverse of lower bits.

## Pin-out Table

| Cable Color  | Pin             |
|--------------|-----------------|
| YELLOW Color | Wiegand Data 0  |
| BLUE Color   | Wiegand Data 1  |
| GREEN Color  | Input Green LED |
| BROWN Color  | Input Red LED   |
| BLACK Color  | GND             |
| RED Color    | +12V DC         |

## Parts and Accessories List

The following parts and accessories should be prepared before the on-site installation

- |  |                      |
|--|----------------------|
| 1. W110 series Wiegand-Interface Contactless Smart Card Reader | (included)           |
| 2. Pin-out table   | (included)           |
| 3. Screw x 2   | (Installer supplied) |
| 4. Screw driver  | (Installer supplied) |
| 5. Cable, 6 conductors shielded 24 AWG cable                   | (Installer supplied) |
| 6. DC Power Supply 12V / 200mA                                 | (Installer supplied) |
| 7. U.S. Standard single gang box or U.K. Standard junction box | (installer supplied) |
| 8. Wiegand-interface controller                                | (installer supplied) |

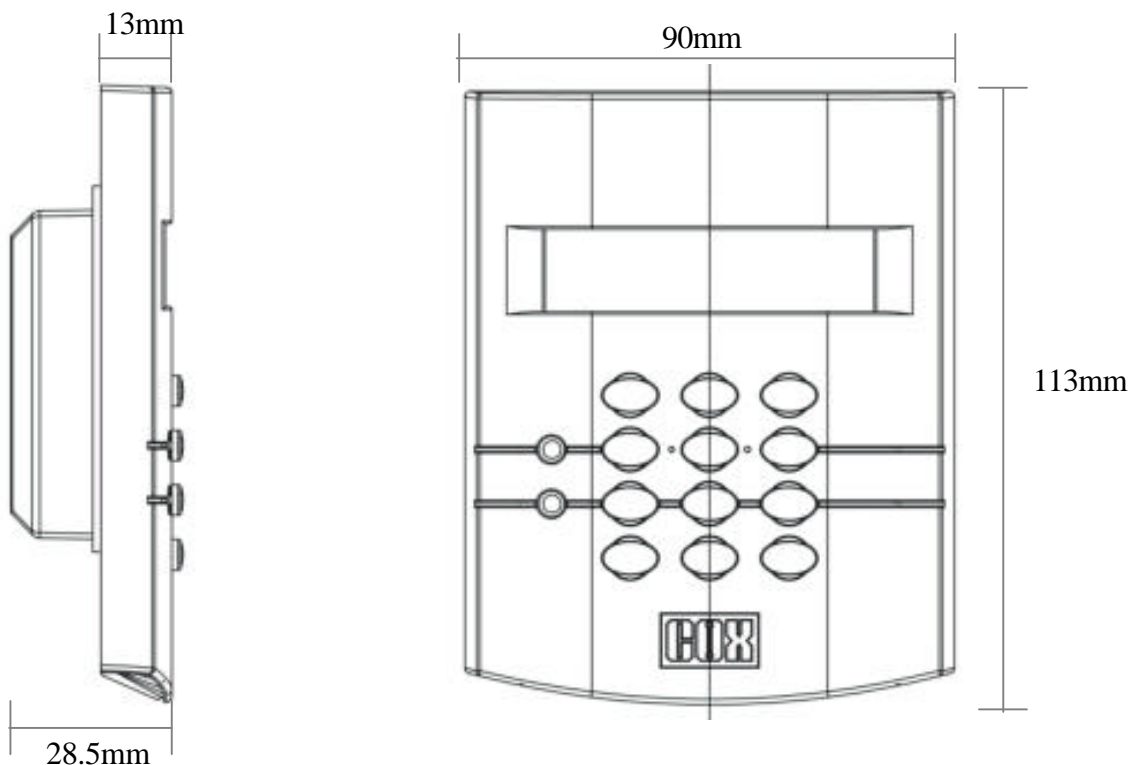
## Operating Voltage

The operating voltage range (DC) of W110 series is 10V DC ~ 15V DC

Typical current at 12V DC : 80mA (**W110-01MX** and **W110-01KX**)

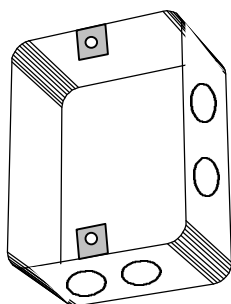
110mA (**W110-01DX** and **W110-01FX**)

### Dimensions

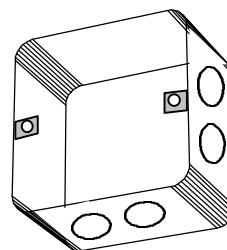


### Installation

1. Determine an appropriate mounting position for the reader. The reader drawing above is actual size. It can be easily installed in the UK standard junction box or U.S. standard single gang box. The standard junction box or gang box should be installed in the wall before installation.

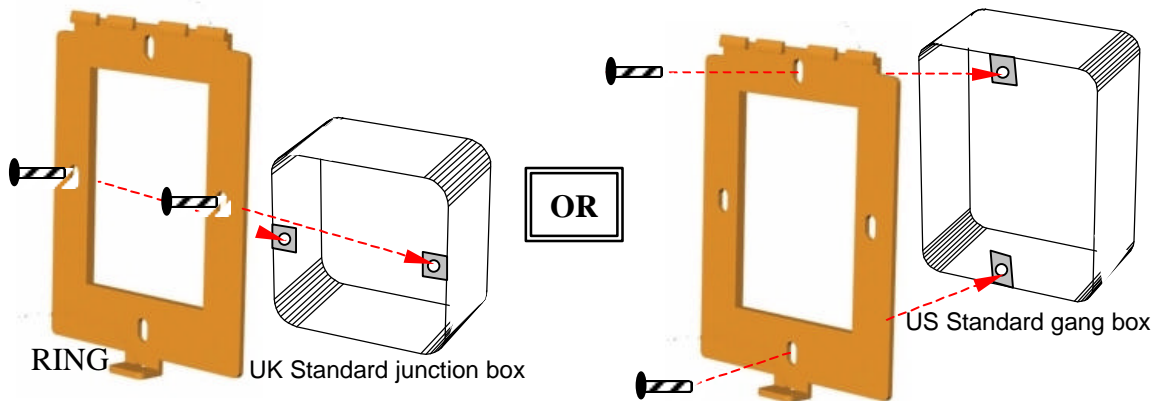


U.S. Standard Single Gang Box

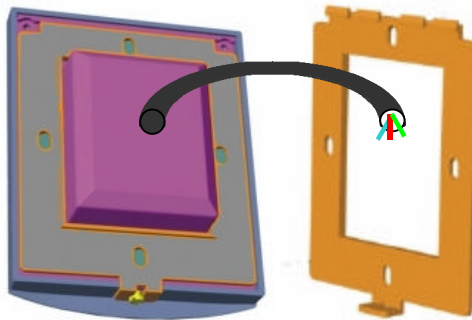


UK Standard Junction Box

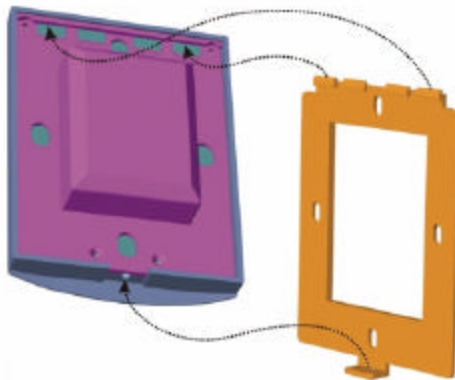
2. After the junction box or gang box mounted inside the wall, mount the RING in the junction box and then use standard screw to screw with the junction box or gang box.



3. Route the interface cable and/or power supply from the back of the reader unit to the Host through the RING.



4. Mount the Reader unit with the RING such as the below figure.



5. Insert the screw in the bottom of the reader and then screw it.

