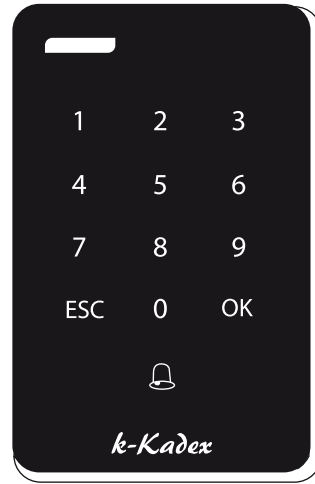


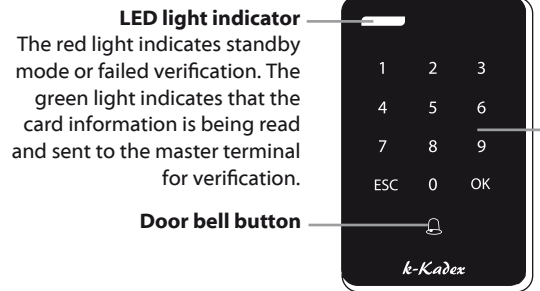
A Firm Access with
FingerTec
k-Kadex



User Guide

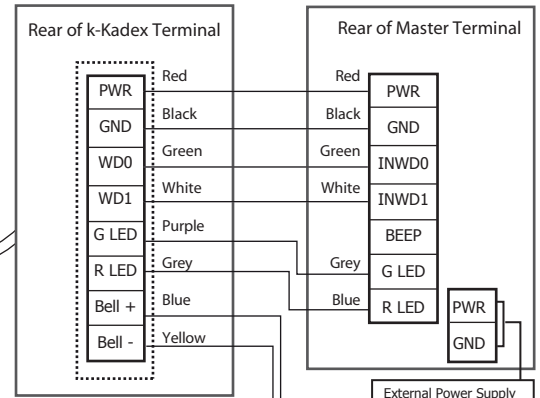
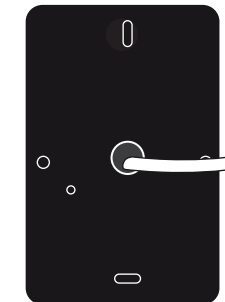
1 A SLEEK ACCESS

The k-Kadex is the latest slave terminal from FingerTec, designed exclusively for card and password access. The k-Kadex reads and records users' information such as users ID, password and card information and directly transmits the information to a master terminal for verification via Wiegand 26-bit output. It is compulsory for the master terminal to have a Wiegand 26-bit input port to receive signals from the k-Kadex.



Card scanning area
To scan and receive card information for verification at the master reader. Default card type: RFID Card, 125kHz 40 to 80mm. Made to order: MIFARE, 13.56MHz 30 to 50mm

2 Connections & Wiring Diagram



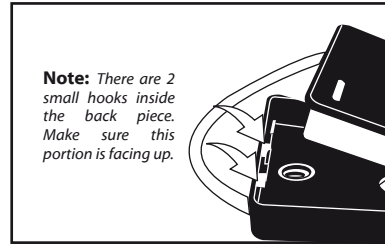
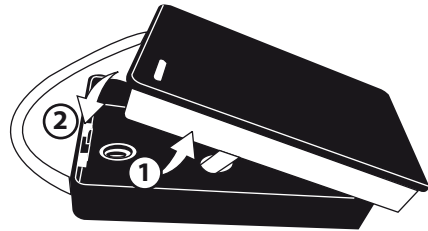
Color	Wire	Function	Connect to master
Red	PWR	Supplies power (DC12V 1A) to k-Kadex	PWR
Black	GND		GND
Green	WD0	Wiegand 26-bit output connects to a master terminal's Wiegand 26-bits input	INWD0
White	WD1		INWD1
Purple	G LED	Buzzer with Green LED input from the master terminal	G LED
Grey	R LED	Buzzer with Red LED input from the master terminal	R LED
Blue	Bell +	Dry contact to doorbell system (the doorbell system must have an individual power supply).	
Yellow	Bell -		

Note: There is only 1 black wire provided which can be shared for the GND for power supply and Wiegand 26-bit output.
**The doorbell is optional*

3 Installation

Note: Please read the instructions carefully before installing the k-Kadex.

The k-Kadex has one wire attached to it. For a neat installation, you need to conceal this wire properly.



- ① Remove the back piece of the k-Kadex from the main piece.
- ② Secure the back piece of the k-Kadex onto or inside a wall using the 4 screws provided but make sure that you have some space for the wire to go through the center hole. Plug the main piece of the k-Kadex securely in place.

4 Verification • User ID & Password

- ① Make sure that the k-Kadex is in its standby mode, where the Red LED light is lit on and the user ID and/or password(s) have been enrolled into a master terminal before you proceed with verification.
- ② Insert a user ID, for example 1234. Ignore the prefix zeros if the user ID has them. Press OK to confirm the user ID. You will hear a beep. This is an indication that the User ID has been sent to the master terminal.
- ③ Insert a password, for example 387034, and press OK to confirm. If the password is correct, you will hear a “beep” after you press the OK button.

Verification result

- a. Successful Verification:** Green LED blinks accompanied with a long beeping sound.
- b. Failed Verification:** Red LED blinks accompanied with two short beeping sound.

Master terminal indication during the verification process at the k-Kadex:

- **Input a username**

Pwd Affirm
 User ID 00004
 ESC OK
- **Input a password**

Pwd Affirm
 User ID 00004
 Input Pwd*
- **During successful verification**

Pwd Affirm
 User ID 00004
 Verified, TQ
- **During failed verification**

Pwd Affirm
 Error Pwd.

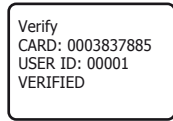
5 Verification • Card

Wave a card at the card induction area to scan the card. The k-Kadex captures the card information and transmits it to the master terminal for verification. Make sure that the k-Kadex is in its standby mode, where the LED light is showing red before you start using the terminal.

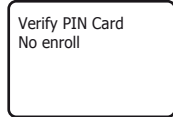
- ① Make sure that you have enrolled the user/card into the master terminal.
- ② Wave the card at the card induction area. The LED light will turn green and it will submit the card information to the master terminal for verification.
- ③ Verification result
 - a. Successful Verification:** Green LED blinks accompanied with a long beeping sound.
 - b. Failed Verification:** Red LED blinks accompanied with two short beeping sound.

Master terminal indication during verification process at the k-Kadex:

• **During successful verification**



• **During failed verification**



SPECIFICATIONS	
MODEL	k-Kadex
SURFACE FINISHING	Acrylonitrile Butadiene Styrene (ABS)
TYPE OF SCANNER	RFID antenna
MICROPROCESSOR	Managed by master
MEMORY	
ALGORITHM	
PRODUCT DIMENSION (L X W X H), mm	75 x 20 x 115
STORAGE	
• Cards	Storage in master
• Transaction	
ENROLLMENT & VERIFICATION	
• Methods	Card & password
• Card per user ID	Managed by master
• Reading distance, mm	40 ~ 80 (RFID), 30 ~ 50 (Mifare)
• Verification time (sec)	Managed by master
CARD TECHNOLOGY	
• RFID: 64-bit, 125kHz	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order
COMMUNICATIONS	
• Method	Wiegand 26-bit output
OPERATING ENVIRONMENT	
• Temperature (°C)	-10 ~ 70
• Humidity (%)	20 ~ 80
• Power input	DC 12V 1A
ACCESS CONTROL	
• EM lock driving output	Managed by master
• Alarm output	
• Antipassback	

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