PIKTEC

INTRODUCTION :

K12 fingerprint sensor is a waterproof metal case standalone fingerprint control with integrated EM reader. IP66 waterproof makes it very suitable for industrial use; with the slim design, it is an ideal choice.

K12 supports up to 1000 fingerprint users and 2000 card users with Wiegand 26~44 bits output.
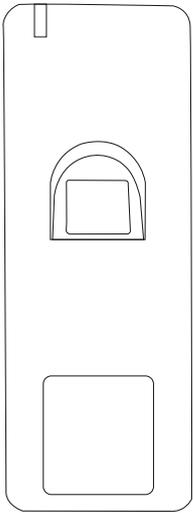
Main Features:

· Waterproof, conforms to IP66
· Metal case, anti-vandal
· One programming relay output
· 1000 fingerprint users, 2000 card users
· Wiegand 26~44 bits output
· Standalone or Pass-through operation
· Multi cards / fingerprints access
· Support setting Authorizing Users
· Anti-tamper alarm
· Multi-color LED status display
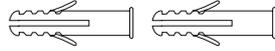· Integrated alarm & buzzer output

Specifications:

User Capacity	3,000
Fingerprint	1000
Card	2000

Operating Voltage	12VDC±10%
Idle Current	≤ 45mA
Active Current	≤ 150mA

Fingerprint Reader	Optical Fingerprint Module
Resolution	500DPI
Identification Time	≤ 1S
FAR	≤ 0.01%
FRR	≤ 0.1%

Proximity Card Reader	Industry Standard 26bits
Radio Technology	125KHz
Read Range	≤2cm

Wiring Connections	Relay Output, Wiegand Output

Relay	One (NO, NC, Common)
Adjustable Relay Output Time	0-99 Seconds (default: 5 seconds)
Lock Output Load	2 Amp Maximum
Alarm Output Load	5 Amp Maximum

Wiegand Interface	Wiegand 26~44 bits output (default: 26bits)

Environment	Meets IP66
Operating Temperature	-30°C~60°C (-22°F~140°F) - Default
	-40°C~60°C (-40°F~140°F) - Optional
Operating Humidity	20%RH-90%RH

Physical	Zinc-alloy Enclosure
Surface Finish	Powder Coat
Dimensions	L128 × W48 × D26 (mm)
Unit Weight	300g
Shipping Weight	365g

Carton Inventory:

Diode 1N4004 (For relay circuit protection)

Wall Anchors

Self Tapping Screws: Φ4*25mm

Screw Driver

Master Add Card

Master Delete Card
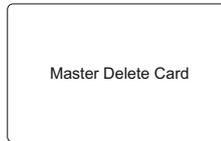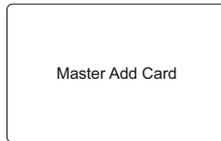
Master Cards

Installation:

φ 8.5*5mm

φ 9mm

A   mm   5

φ8.5*5mm

73mm

C

Step2

Step1

Step3
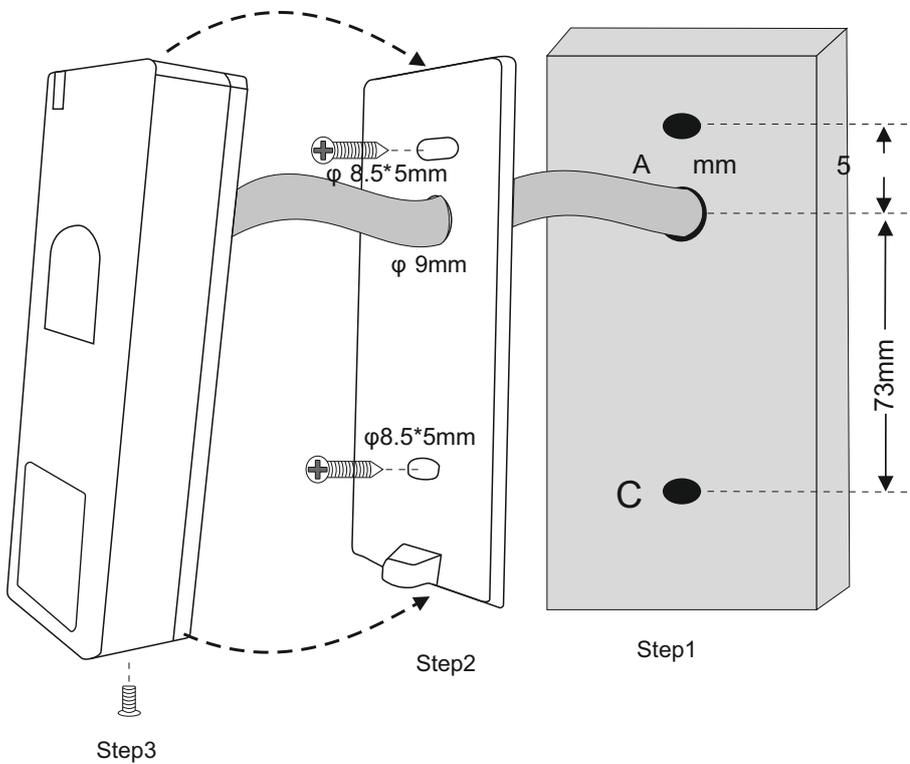
Wiring :

Wire color	Function	Notes
Basic Stand Alone Wiring		
Red	12V DC	12V D C Regulated Power Input
Black	GND	Ground
Blue	Relay NO	Normally Open Relay Output (Install diode provided)
Purple	Relay Common	Common Connection for Relay Output
Orange	Relay NC	Normally Closed Relay Output (Install diode provided)
Yellow	OPEN	Request to Exit (REX) Input
Pass-throughWiring (Wiegand Reader)		
Green	Data 0	Wiegand Output (Pass-through) Data 0
White	Data 1	Wiegand Output (Pass-through) Data 1

Sound and Light Indication :

Operation Status	LED	Finger Sensor Light	Buzzer
Stand by	Red light bright	Off	-
Enter into programming mode	Red light shines	Off	One beep
In the programming mode	Orange light bright	-	One beep
Operation error	-	-	Three beeps
Exit from the programming mode	Red light bright		One beep
Open	Green light bright	Off	One beep
Alarm	Red light Shines quickly	Off	Beeps

Fingerprint Control Power Supply :