

# MK-V1[F]

## Access Control Device Kit



CE FCC

### MK-V1[F] Access Control Device

#### Features


- Zinc alloy housing ensures a full operation in all weather conditions.
- Available card modules: 125 kHz ID card and 13.56MHz IC card.
- Achieved IP66 ingress protection rating, indicate its capabilities of waterproof and dustproof.
- Enhance flexibility, MK-V1[F] can use as Wiegand reader with LED & buzzer output.
- Embedded with a light-dependent resistor (LDR) for tamper detection.

#### Specifications

Model	MK-V1[F]
Operation System	Linux
Hardware	CPU: CKSF030 RAM: 8KB; ROM: 64KB Touch Keypad: 12 Keys
Authentication Method	Fingerprint / Card / Password
Fingerprint Template Capacity	1,00 (1:N) (Standard)
Card Capacity	888 (1:N) (Standard )
Transaction Capacity	1,000 (Standard )
Max. User Password Length	6 Digits
Card Reading Distance	2cm to 6cm
Biometric Verification Speed	<0.3s@ Fingerprint
False Acceptance Rate (FAR) %	≤0.001% (Fingerprint Recognition)
False Rejection Rate (FRR) %	≤0.1% (Fingerprint Recognition)

Card Type	ID & IC (125 kHz & 13.56 MHz Dual Frequency)
Communication	Wi-Fi (IEEE802.11n/b/g) @ 2.4 GHz Bluetooth: BLE5.0 Wiegand (Input & Output)*1 Aux Inputs *1, Aux Outputs *1, Electric Lock*1, Door Sensor*1, Exit Button*1, Alarm*1
Standard Function	Access Control, Buzzer, LED (Green: verification successful ; Red: Normal Status ; Blue: verification is in process), Multiple Verification Methods
Power Supply	DC 12-18V
Operating Temperature	-20°C to 60°C
Operating Humidity	0% to 98% RH (Non-condensing)
Dimensions	165 mm*44 mm*22 mm (L*W*H)
Gross Weight	0.500 Kg
Net Weight	0.415 Kg
Supported Software	Mobile App: ZSmart (Mobile Credential)
Installation	Wall-mount
Ingress Protection Rating	IP66 (waterproof and dustproof)
Certifications	ISO9001, ISO14001, CE, RoHS, FCC

## Electric Lock

	Lock Style	Electronic Magnetic Lock
	Model	AL-280 (LED)
	Feature	Applicable to any Single door with doorframe, 90-degree open angle Power-on to lock
	Holding Force	270kg
	Working Voltage	DC12V / 24V input
	Weight	1.97kg
	Dimensions (L*W*H)	253*25*48 (mm)

## TLEB102-R Exit Button

Rugged Touchless Exit Buttons with Advanced Built-in Infrared Technology

### Features

- Two methods to open the door: infrared induction and remote control
- Remote control distance: 1,000cm
- Infrared induction distance: 10cm to 25cm

### Specification

Operating Temperature	-10°C to 55°C
Operating Humidity	0% to 95%
Storage Temperature	-15°C to 60°C



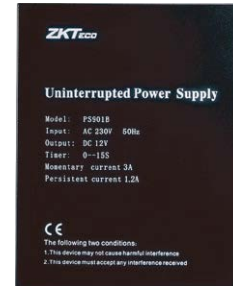
Storage Humidity	0% to 95% RH (non-condensing)
LED Indicator	Blue: Standby, White : Triggered
MCBF	>100,000 times
Dimensions of Button (L*W*H)	115*70*25 (mm)

## PS901B Power Supply

Power supply with Battery Leads which can help install a backup battery for emergency use.

### Features

- Input: 220V AC, 50Hz
- Output: 12V DC, 3A
- 12V 7Ah battery not included



## AS32 Door Sensor (Only compatible to the Electronic Magnetic Lock)

### Features

- Sensing distance: 18mm (±5mm)
- Switch output: NC



## ID TAG and ID Thin Card

125kHz Cards



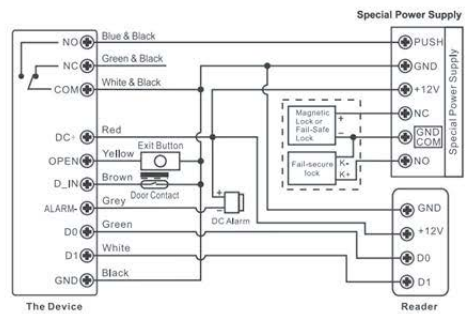
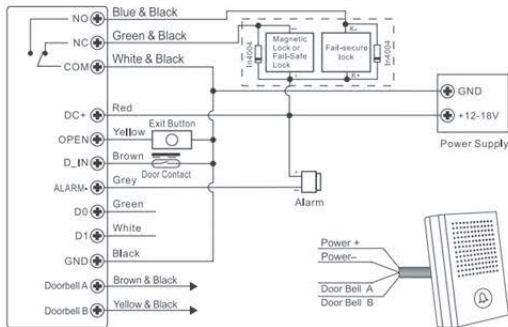
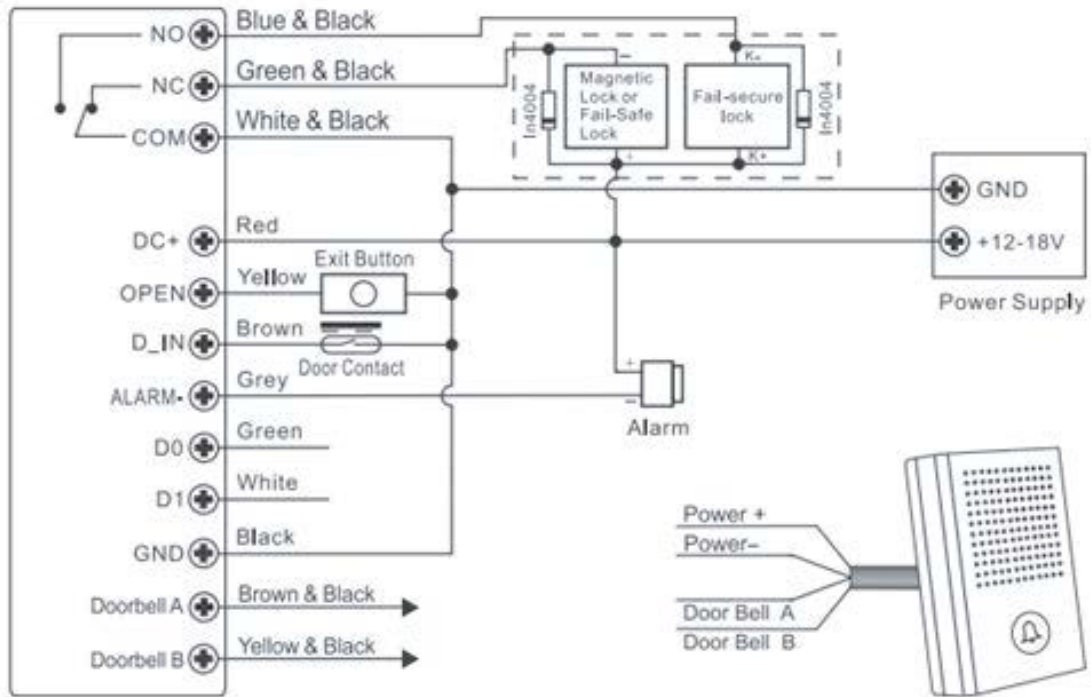
## Package List

	Package	ERP Code	Quantity
Device	MK-V1[F]	F23050045	1
Exit Button	TLEB102-R	F23160008	1
Power Supply	PS901B	X01701038 / X01701040	1
ID Card	ID Thin Card	X00101074	10
	ID TAG	X00101037	10
Electronic Magnetic Lock	AL-280 (LED)	X03401177	1
	AS32	X03401271	1

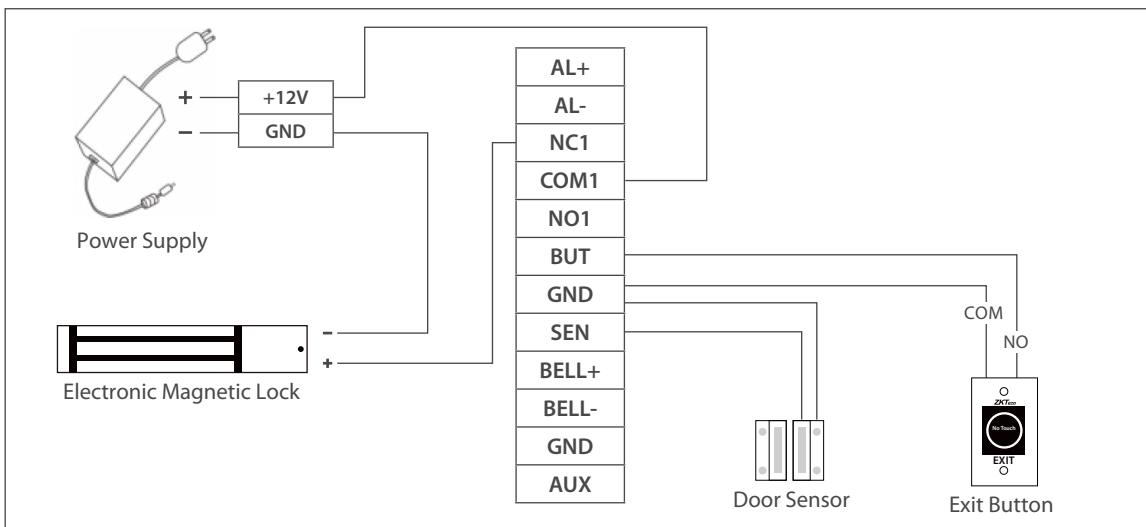
## Package



# Configuration & Scenarios



## Electronic Magnetic Lock Wiring Mode





## Electronic Magnetic Lock



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