

K-U Campus Series

The School Security & Safety Solution



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Safety Solution**

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The Prevalence of School Violence

School violence seems to be a part of the news we hear from time to time. It isn't anything new and have been happening around the community. There have been countless numbers of stabbings, shootings, fights and other types of violence in schools over the years, and a lot of people have been hurt or killed in these incidents.

School security is a unique challenge that demands innovative solutions and is a top priority for Klacci. Our goal is to prevent future tragedies, while ensuring the safety of children and faculty and providing peace of mind to parents.



According to data* from the United States Centers for Disease Control and Prevention (CDC):

- 1 in 5 high school students in the United States reported being bullied on school property in 2016.
- Homicide is the 3rd leading cause of death for young people ages 10-24.
- Youth violence is costly. Youth homicides and nonfatal physical assault-related injury cost billions of dollars each year.

Parents need to have peace of mind knowing that their children are protected while they are in school. At Klacci, we believe that it is our job to work together to keep all children as safe as possible. It is also our responsibility to do what we can to make sure that schools are safe places for parents to send their children.

* Data source quoted from the United States Centers for Disease Control and Prevention (CDC) used for youth violence prevention.



K-U Campus Series

The Ideal Security
and Safety Solution
for Schools





Every school is unique when considering which security measures to put into place. No two schools have the same campus size, numbers of room, building layout and design. Budget is also an essential factor. Klacci's **K-U Campus** Series offers a flexible solution for school administrations to choose that balances the available budget resources with the safety needs in the environment.

The **K-U Campus** Series, a lockdown and access control solution using Klacci's comprehensive heavy-duty commercial products, all meet the ANSI/BHMA Grade 1 or Grade 2 strength requirements with UL294, UL60950, FCC Part 15 B&C.

The solution provides a wide range of options for both faculty members and first-line responders to be able to react to different threat levels. Occasionally, an immediate lockdown is needed. Often a partial lockdown based upon suspicious activities is best, and at times, a total evacuation is required during an emergency situation. The **K-U Campus** Series provides options to meet every circumstance.

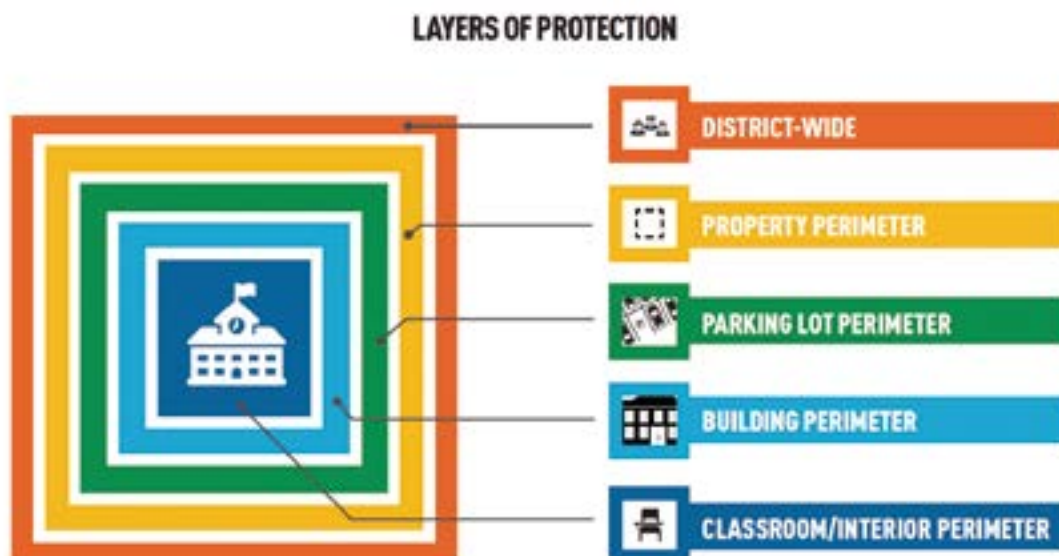


Designed accordance with the PASS School Safety and Security Guidelines

The PASS School Safety and Security Guidelines are the most comprehensive information available on best practices specifically for securing K-12 school facilities, including elementary schools, middle schools and high schools. The PASS School Security Checklist allows you to assess the current state of safety and security efforts in your school or district compared to nationwide best practices.

What the Guidelines Cover

The primary focuses of the PASS Guidelines are physical security and life safety, and recommendations are limited to related policies, procedures, equipment and technology. Modern and effective security infrastructure is an essential element of any comprehensive school safety and security strategy, but not the only element. When other prevention efforts fail, facility security measures are critical to protection, mitigation and response. The Guidelines do not address every risk and every situation and, importantly, do not include product-specific recommendations.



Essential Concepts in the PASS School Safety and Security Guidelines

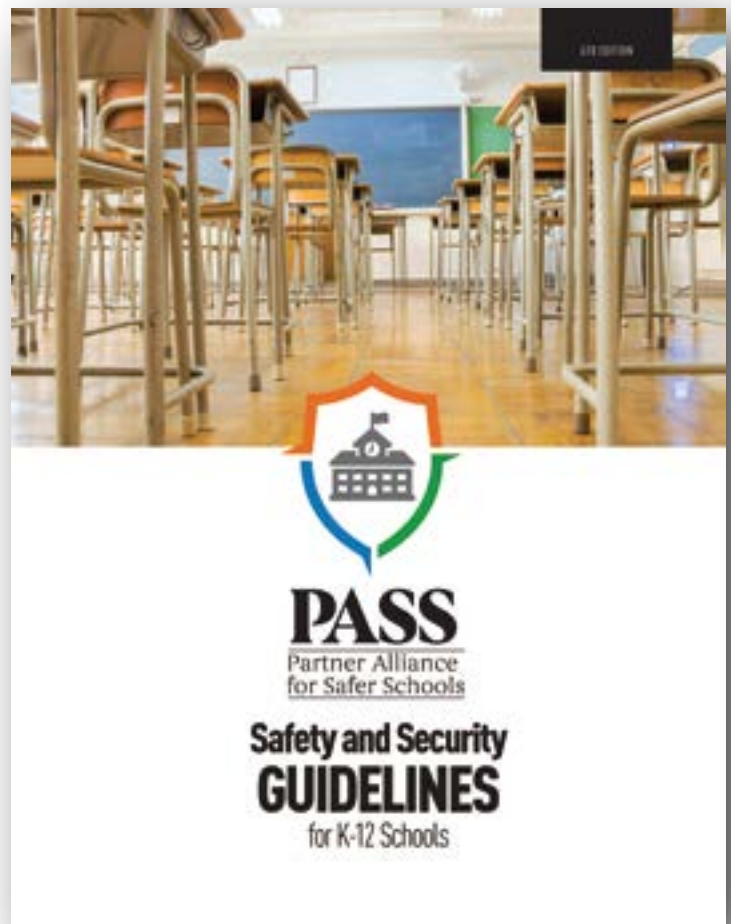
The PASS Guidelines use fundamental concepts throughout the document to help schools evaluate and prioritize their approach to safety and security: product-specific recommendations.

- **Layers** - one of five physical layers
- **Components** - protective element within each layer
- **Best Practices** - recommended safety and security measures within each component
- **Tier** - each best practice is ranked on a tiered continuum, from 1 to 4, with higher tiers indicating increased protection

Each successive layer provides specific components to deter, detect or delay adversarial behaviors in the event that other layers are bypassed or breached.

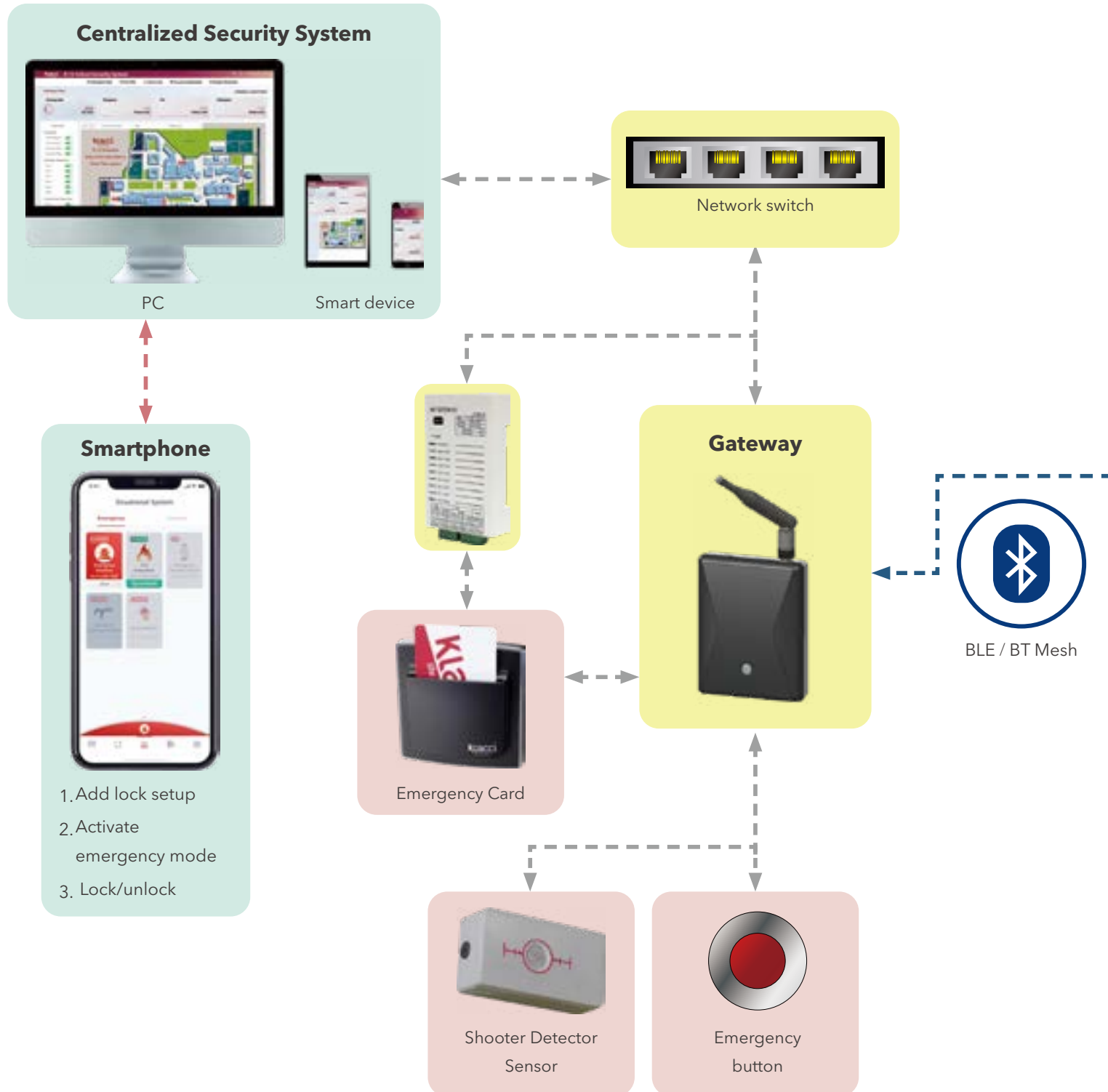
Each layer includes basic protective elements, or components, of safety and security. The PASS Guidelines focus on the following safety and security components:

- Policies and Procedures
- People (roles and training)
- Communication
- Architectural
- Access Control
- Video Surveillance
- Detection and Alarms
- Transportation
- Cybersecurity
- Network Infrastructure
- Visitor Management

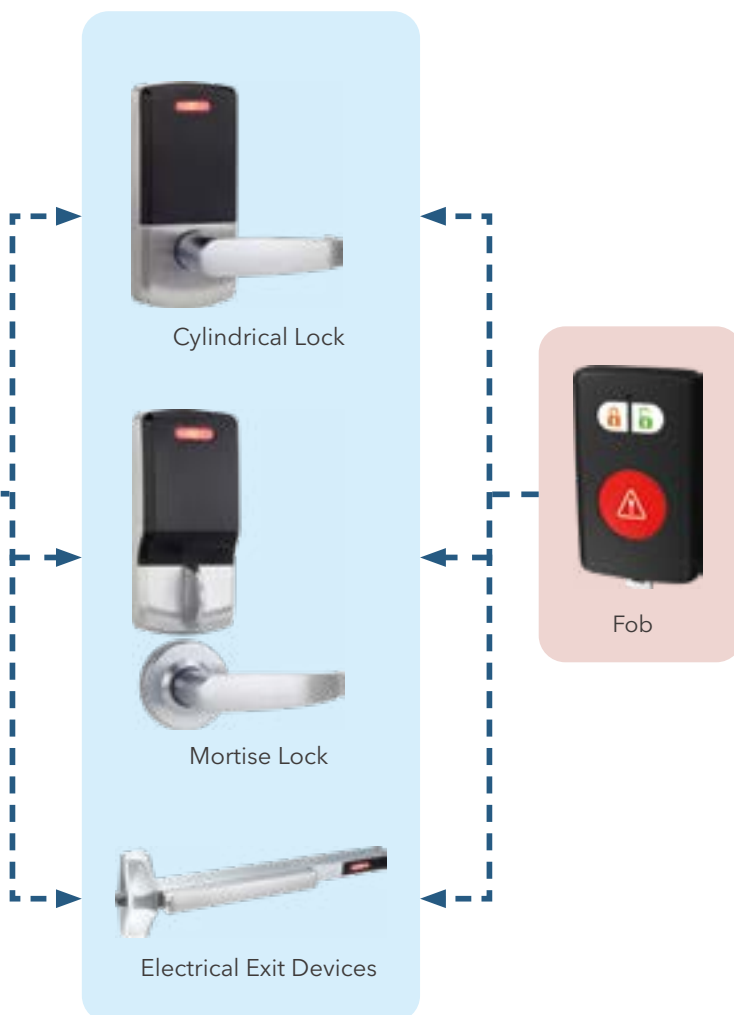


Product Overview

Based on the premises' connection method and power source of the locking devices, either wire or wirelessly connected, AC or DC battery powered, this school security product uses Bluetooth Low Energy (BLE) or Bluetooth Mesh with RS-485 as the core to provide security to the teachers and students.



This system links a cloud-based management platform and mobile phone App to the locking devices, with the capability of integrating into other third-party products when providing the SDK with the transmission protocol. It allows the product to upgrade quickly and seamlessly when a new system becomes available to the market without redesigning the compatible locking devices.



The standard version includes:

- Cloud-based management platform that monitors and checks status of the terminal devices and initiates lockdown under different types of emergency.
- App controlling device.
- BLE/BT Mesh connected remote fob.
- BLE-BT Mesh connected gateway and locking device.

Product Function:

Lockdown within 3 seconds after Emergency Mode initiated, or releases locks within 3 seconds after Fire Alarm Mode initiated.

The following locking devices can be connected within the system:

- Mortise lock
- Cylindrical lock
- Exit Device

Establish Guidelines and Let Klacci Do the Rest

Each school establishes guidelines for what actions would be necessary for each security event. A security event may be internal such as school violence or an active shooter. It may also be an external threat such as a pandemic outbreak, a violent crime, or a threat near the school or at a distance. Each security event has its own unique challenges and may evolve quickly accelerating from "normal" to "total lockdown".

Examples of emergency events and possible responsive actions may include:

Event	Prevent Entry - Completely	Prevent Entry - Partially	Evacuation
Power Failure			×
Earthquake			×
Fire			×
Bomb Threat			×
Hostage Event		×	
Active Shooter	×		
Panic Alarm	×		

Code GREEN

Evacuation of Building

Code YELLOW

Prevent Entry in part - Hold and secure

Code RED

Prevent Entry Completely - Out of sight and no movement

The Central Parts of the System

Emergency Card - The Core of the Solutions



The authorized card triggers and reverses a complete lockdown by inserting and removing the card from the holder. The ability to integrate the Emergency Card with other security options ensures that the system is customized for budget, building layout and security risk assessment.

Centralized Security System



The **K-U Campus** Series is PC and smart device compatible, monitoring the real-time status of all access points on the premises, including responsive action triggers to lock all areas or specified areas in seconds.

Fob



Use the Fob to easily secure or release access to one or multiple nearby doors during a panic situation.

Shooter Detector

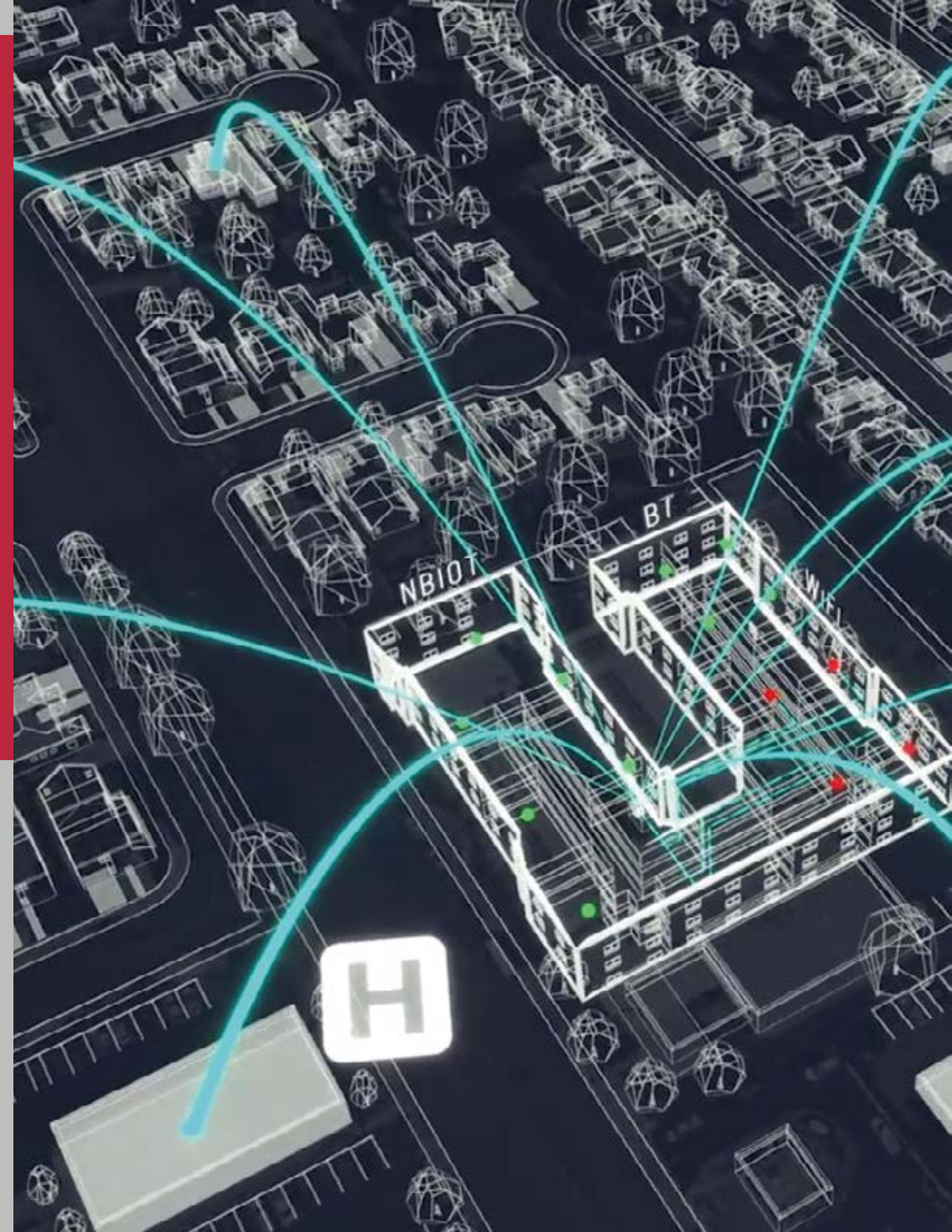


Automatically and immediately secures access to a nearby area where gunshot is detected.

Manual Operations



No hard wiring. Manually engage locking mechanism with an optional visual indication which shows the status of each individual lock. Refer to page 33.



School Security Solutions

- ✓ Removing the authorized emergency card to set off lockdown mode from principal's office or security control center. (Inserting the card disables lockdown mode).
- ✓ PC/Smart Device features:
 - The registered administrator assigns or revokes authorization to individual user or door lock via the system.
 - Users may control the locked doors and initiate responsive actions via smart devices based on their assigned authority.
 - Both system administrator and users could control the locked/unlocked doors depending on the emergency.
- ✓ Automatically informs the police.
- ✓ Once triggered, it automatically initiates a fire alarm and informs the fire department.
- ✓ Shooter detectors automatically lock multiple or individual locks when a gunshot is detected. Alerts are sent to the principal or security office with no human action required.



The Centralized Security System



In a panic situation, there is no room for mistakes and reactions must be enforced in a matter of seconds. The K-U Campus Series gives you the most visual and direct management over panic situations. You have total control of the system even during life-threatening situations.

1. **K-U Campus** Series monitors the premises and instantly carries out lockdown procedures and reacts to emergencies such as fire, panic alarm, or active shooter.
2. The system can be used to secure an individual entrance, groups of exits in a designated area at once, or trigger a complete lockdown.
3. The Floor Map layout display can be customized to the actual surroundings for real-time monitoring and to control each access point.
4. The system automatically updates and diagnoses the connection to synchronize the status (locked/unlocked) of each lock.
5. The Emergency Card, as an integral part of the **K-U Campus** Series overrides commands from other devices to physically initiate a complete lockdown.
6. An available mobile phone app and remote fob gives faculty members or authorized staff the ability to react to emergencies.

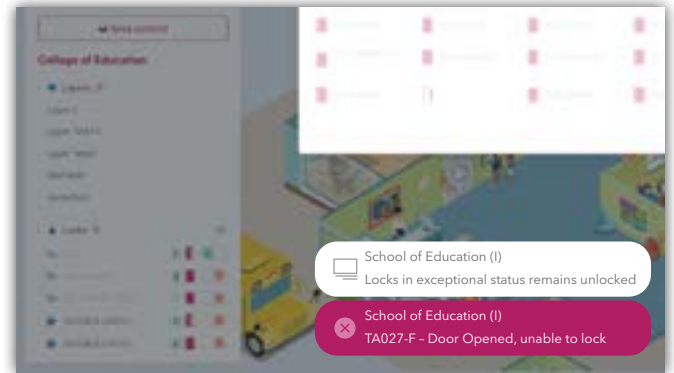
Navigating the System



Initiating a lockdown

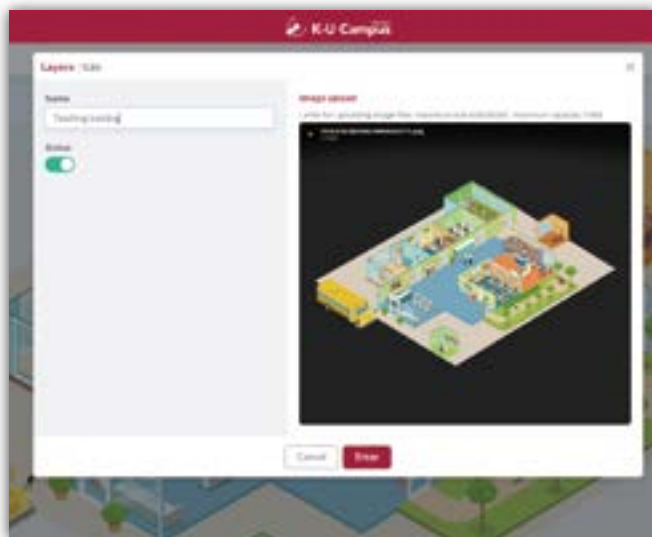
Based on the emergency, clicking on the corresponding responsive button will prompt an alert and confirmation before initiating procedures.

A real-time message displays the current status during the lockdown.



Door Position Detection

The system automatically detects that doors are properly closed and locked during lockdown mode.



Planning and Assigning Authorizations

Individual areas can be configured and added from the floor plan overview, setting up authorized devices or remote fobs which can lock access in that area and show status during the lockdown.



Real-time Surveillance

A video surveillance system can be integrated into the system. Monitoring the premises is effortless from the floor plan overview.



Emergency Card

Installs in a designated area, such as the principal's office, the security center or with personnel having the highest authority in determining a lockdown. The Emergency Card serves as the master to initiate and override commands from all other devices.

Features

- Removing the Emergency Card from the card holder will initiate a complete lockdown in 3 seconds.
- Replacing the Emergency Card in the holder followed by passcode entry or biometric verifications release all access points and reverts the system back to stand-by status.

Specifications

Standard	• Conforms to ISO/IEC 14443-A standard.
Card Type	• Mifare[®] Classic, Mifare[®] DESFire, Mifare[®] Plus.
Frequency	• 13.56 MHz.
Material	• PVC.
Size	• 3-3/8" × 2-1/8" × 1/32" (85.6mm × 54mm × 0.8mm).

Fob

Certain situations simply cannot wait for the central office to take the necessary actions against the threat. The fob is designed for mobility and responsive reaction to protect students and teachers. When securing an individual door or groups of exits in one designated area is required, simply pressing buttons on the fob and transmitting the command via a secure 433 MHz wireless network to the Klaccis's K-U Campus Series and gateways initiates the response.



Features

- Three Buttons: Lock/Unlock and Lockdown(with LED).
- Range: 75 ft. indoors (typical), outdoor 25 ft.
- Visual Indicators: LED indication under buttons.
- Initiate Code RED Emergency Lockdown: Press and hold for 3 second to initiate lockdown; A lockdown cannot be canceled via the fob; it must be overridden from the central system once initiated.
- Lock / Unlock: Press the button to secure or release the door.
- A Scalable Solution: The fob can lock down a single door or set of doors.

Specifications

Wireless Communications	• 433 MHz; Range of 75 ft. indoors (typical), outdoor 25 ft.
Buttons	• 3 button fob (Emergency Lockdown, Lock, Unlock).
Lockdown button	• Press and hold for 3 second to initiate fob will flash when it is working.
Lock Door button	• Press the button to lock the door.
Unlock Door button	• Press the button to open the door.
Capability	• Configurable to lock single door, set of doors or entire system.
Dimensions	• 1.4 x 2.3 inches.
Weight	• 0.53 oz.
Code Compliance	• FCC Part 15 B&C.
Material	• Polycarbonate. • Protective button cover to prevent false alarms.
Battery	• Standard 3V CR2032 battery. • Up to 3 year battery life.
Color	• Black.
LED Indicator	• Red, Green, Orange.



Shooter Detector

When every second counts and there is no chance for a second thought, shooter detectors are installed onsite throughout the building to automatically secure doors or trigger responsive actions. The automatic operation greatly reduces response time and errors made during an emergency.

Used with the **K-U Campus** Series, shooter detectors can locate and follow the shooter remotely. The trace of the threat is in complete control.

Features

- Does not require human action, which means faster and more accurate decisions.
- Automatically triggers lockdown, secures doors, sends a broadcast or mass notification, and calls responding units (available depending on the setting).
- Installing multiple shooter detectors allows the **K-U Campus** Series to track the shooter.

Gateway



The Bluetooth technology is designed to make connectivity of data among multiple points over long distances in harsh environments. The Klacsi Gateway is designed for the **K-U Campus** Series to effectively communicate with multiple devices on the field for long range coverage through Bluetooth technology. Information can be exchanged consistently and responsively.

What this mean to you is a reliable connection and timely responses for command entry between the administrator and the field personnel. You can be confident that there are no dark spots in your building scanning for coverage when you need it. Rest assured that your school is ready to respond in any emergency situation.

Specifications

Power Supply	• 12~24Vdc , 330~100mA(terminal). • 12~24Vdc, 330~100mA power adapter. • PoE supported IEEE802.3af ,60mA (Class 4/Max Power 12.95W).
Output	• External alarm, eg. visual indicator, buzzer, etc. (The switch output for dry contact/live contact is 12V ore 24V, based on the gateway's voltage.
Input	• Connection to shot detector, panic button etc. as the initiator for the emergency mode.
Ethernet Standard	• 10 BASE-T/100 BASE-TX.
Frequency Ragnge	• 2450~2480 MHz (Bluetooth). • RF Standard: IEEE 802.15.4.
Operating Temperature	• 0~49 °C.
Operating Humidity	• 85%.
Indoor Radio Range	• 10~15m (30'~50').
Cable requirements	• Ethernet: UTP CAT5e. • RS-485: Generic twisted pair wire.
Certification/Compliance	• UL294, FCC Part 15, Industry Canada(IC), RoHS, PoE compliant to IEEE802.3af/at.
Dimensions	• 110mm x 85mm x 28.5mm (H x W x D)
Tamper Switch	• Unauthorized dismantle of the device will transmit alert to the system.
System interface	• Ethernet to IP host. • RS-485 to Repeater/lock.
Buzzer/LED Indicators	• Based on the status and control display from the management platform, input terminal, and anti-tampering switch.
Anti-tampering	• Sends alert to the management platform when devices are dismantled by unauthorized personnel (Anti-tampering signal is connected to the alarm system).

All the Hardware You Need for Your School Security Solution

Klacci offers the most extensive selection and the toughest hardware to employ with the K-U Campus Series.



**KU Series
Cylindrical Locks**



**KU Series
Mortise Locks**



**iF/iF+ Series
Cylindrical Locks**



**iF/iF+ Series
Mortise Locks**



**iF/iF+ Series
Reader**



PO Series
Door Operators



ES Series
Electric Strikes



Electric Bolt



LF Series
Electric Cylindrical Lock



M/M1 Series
Electric Mortise Lock



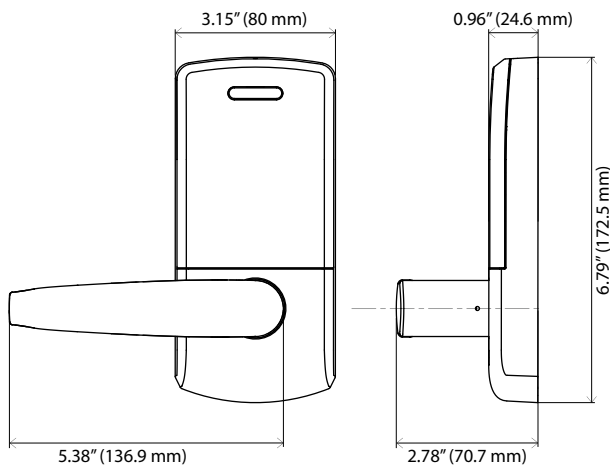
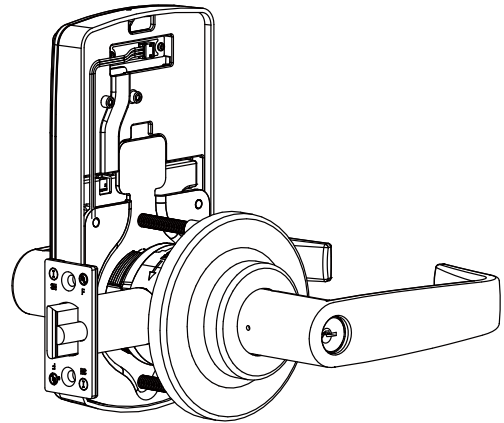
1000/2000/30 Series
Electric Exit Device

Electronic Specifications

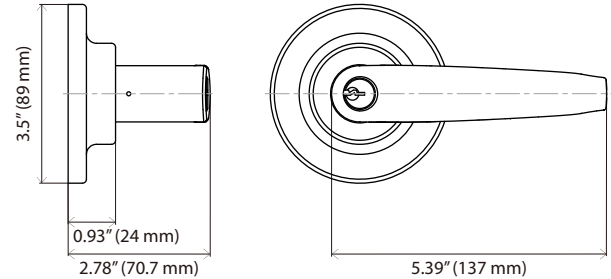
	Battery type	Low voltage type
Required power/Control mode	Battery life: Estimated 20,000 uses with (4) AA alkaline batteries. Note: Battery life varies based on using frequency.	- Power input: 12 or 24 VDC. 2 types of output options. - Energized circuit (Output = Input; Current: MAX 1.5A). - Electrical circuit (COM, NO/NC).
Interface	Bluetooth Low Energy, Bluetooth Mesh.	
Buzzer/LED Indicators	Based on the status and control display from the management platform, App, Gateway and remote fob.	
Intruder detections	Door Position Switches (DPS), Latchbolt Monitoring (LM), Deadbolt Monitoring (DM), Vibration Sensors, Request to Exit (RX).	
Management	Can assign secondary administrators for unlimited or 3-5 users using the user management interface.	
Credential verification time	<1s (without facial recognition). Note: Depending on the smartphone used, the actual connectivity during operation may differ.	
Communication standards	- Wifi 3G/4G/5G. - Bluetooth 4.0. Note: Based on the device's compatibility.	
Encryption	AES 128-bit.	
Communication range	2m.	
Wake-up on radio	1s by Bluetooth connection or Inside button.	
Data rate	<100kb via Wifi, 3G/4G/5G.	
Connectivity options	- Web portal management platform (manage authorization, authorization updates, biometric/non-biometric requirement). - Wifi access point (real-time communication). - Real-time communication telecom signal (3G/4G/5G, based on the device's compatibility).	
Non-biometric/Biometric recognition	Customized passcode, fingerprint, facial recognition. Supports Face ID (iOS) or device built-in biometrics data recognition.	
Operating temperature	0~49°C.	
Operating humidity	85%.	
Certification/Compliance	- ANSI_UL294 Access Control System Units. - CAN_ULC-60839-11-1 Alarm and Electronic Security Systems - Part 11-1. - ANSI_BHMA A156.25 Electrified Locking Devices. - ANSI/BHMA A156.2 Bored & Preassembled Locks and Latches. - ANSI_BHMA A156.3 Standard for Exit Devices.	- ANSI/BHMA A156 .13 Mortise Locks. - Federal Communications Commission (FCC). - Industry Canada (IC) Certification. - Taiwan's National Communications Commission (NCC). - UL10C 3 hour fire-rated.
Available status signals	- Request-to-exit. - Battery status/low battery alert. - HOLD OPEN mode (constantly unlocked until reset back to standard mode)(Use App to setup). - PRIVACY mode (all users' access denied until reset back to standard mode or when turning inside lever; administrator can access normally)(Use App to setup). - Communication status.	
Flexible solutions	- Smart card. - Smartphone. - Tablet. - Web portal via PC.	
Mobile App	- Add and configure locks. - Add new users and enroll credentials. - View users and alerts. - Perform lock diagnostics. - Requirements: IOS 9 or later Android 4.4 or later.	- Standard authentication: Passcode or the user mobile device's biometric recognition function. - Dual authentication: The standard authentication and the Smartlink App's facial recognition. - User feedback. - Updates non periodically for new features and user friendly interface.
Web portal	- Configure locks. - Add new users and enroll credentials. - View audits and alerts. - Setup facial recognition requirement for access. - Preserve for security camera/ online alerts connection port.	- Requirements: » IE 11.1 or later. » Chrome 38.0 or later. » Firefox 33.0 or later. » Safari for Mac OS X10 or later. » Mobile/tablet browser for Android and iOS.

Mechanical Specifications

KU-01 Cylindrical Lock



Inside view

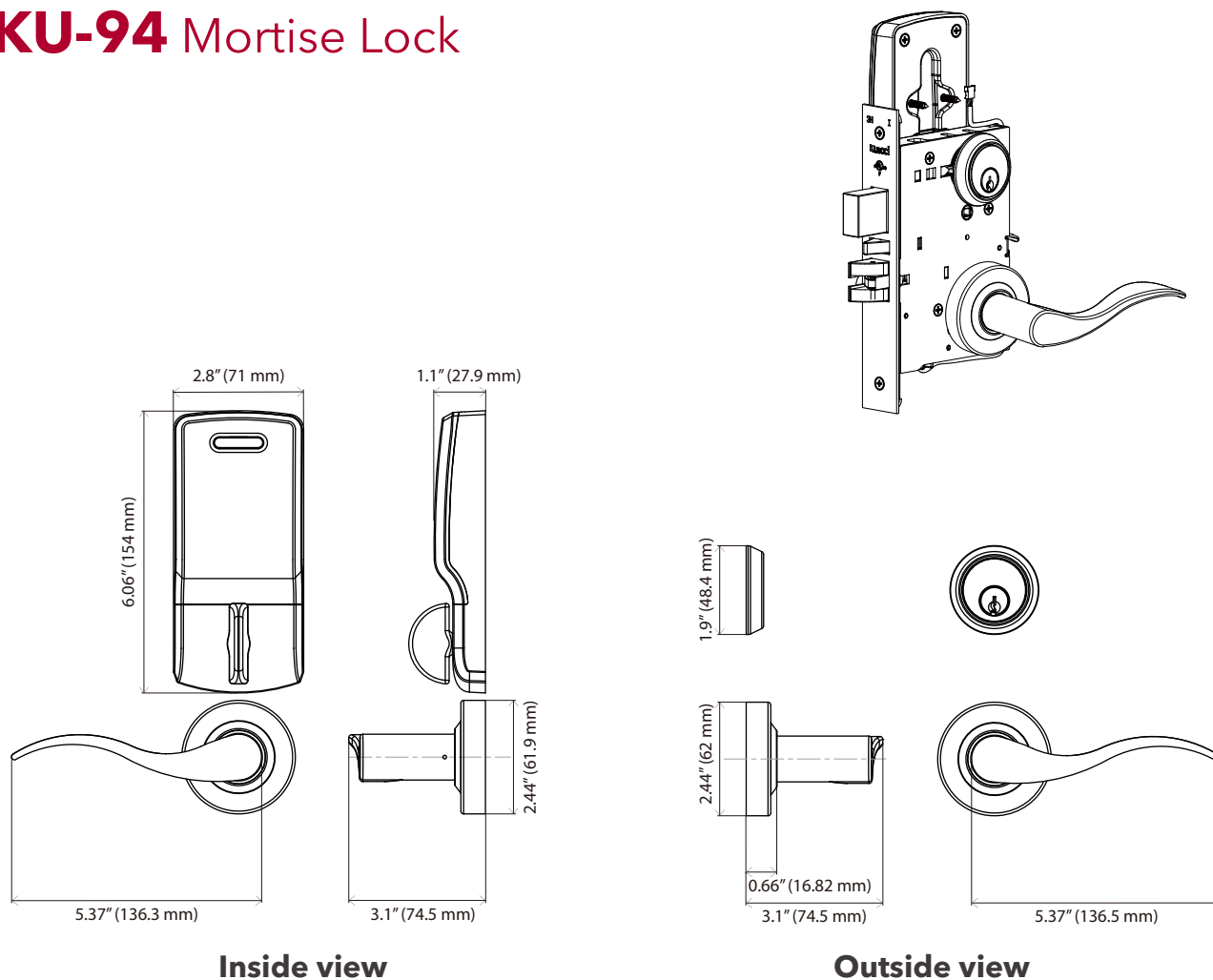


Outside view

Certification/Compliance	• UL listed for "A" label (3 hours) single swinging door (4'x8'). • Conforms to ANSI/BHMA A156.2 Grade 1 Cylindrical Lock standard. • UL10C Standard for positive pressure fire tests of door assemblies.
Doors & preparations	• ANSI A115.2, through bolted installation.
Backset	• 2-3/4" (70mm) standard, 2-3/8" (60mm), 3-3/4" (95mm) and 5" (127mm) optional.
Door thickness	• Standard 1-1/2" (38mm) ~ 2" (50.8mm) wood or metal door. • Please consult factory for thicker door availabilities.
Latchbolt	• 1/2" (12.5mm) throw, UL listed, faceplate self-adjusted, 3/4" (19mm) throw fire door deadlatch available.
Handing	• Non-handed.
Strike	• ANSI strike standard, T-strike or Full lip strike optional.
Cylinder	• 6-pin "C" keyway standard, nickel silver keys, compatible with Schlage® original cylinder.
I/C core	• SFIC: 6 or 7-pin, compatible with Best® and Falcon® original cylinder. • FSIC: 6-pin, compatible with Schlage® original cylinder.
Trim	• Solid zinc diecast levers, wrought brass roses, concealed screws.
Master keying	• Can be masterkeyed or grand masterkeyed. Construction key systems available.

Mechanical Specifications

KU-94 Mortise Lock



Inside view

Outside view

Certification/Compliance	• ANSI/BHMA A156.13 Series 1000, Grade 1 operational and security. • UL Listed for 3-Hour fire rating.
Doors & preparations	• Conforms to ANSI A115.1, through bolted installation.
Case size	• 4-5/16" x 6" x 1" (110mm x 152mm x 25mm).
Armor front	• 1-1/4" x 8" x 7/32" (32mm x 203mm x 5mm) Standard, 1-1/16" x 8" x 7/32" (27mm x 203mm x 5mm) optional.
Backset	• 2-3/4" (70mm) only.
Door range	• 1-3/8" (35mm) ~ 2-1/2" (64mm) metal door. • 1-3/4" (45mm) ~ 2-1/2" (64mm) wood door.
Beveled door	• Self-adjusting case.
Spacing	• 3-5/8" (92mm) center cylinder to spindle. 2-7/16" (62mm) center thumbturn to spindle.
Deadbolt	• 1" (25mm) throw, stainless steel.
Latchbolt	• 3/4" (19mm) throw, with anti-friction tongue, all stainless steel.
Deadlocking bar	• Non-handed, stainless steel.
Case handing	• Field reversible without removing case.
Through bolt	• Through-bolted trim self-aligned with lock case.
Strike	• Curved lip is non-handed. Custom lip lengths at 1/8" (3mm) increments available.
Spindle	• Breakable to prevent the lock case from unlocking or being damaged.
Cylinder	• 6-pin standard, with two nickel silver keys, "C" keyway. Can be masterkeyed or grand masterkeyed. Construction key system available.
I/C core	• 6 or 7-pin, compatible with Best® and Falcon® original cylinder.
Fastener	• Concealed under the escutcheon.

Electric Cylindrical Lock



LF Series cylindrical locks are also available for electrical options for access control systems in high-security applications.

Options

RX - Request to Exit

The RX feature is used to signal an opening and is equipped with one internal SPDT switch that monitors the turning of the lever. The device can be connected to a security console or may be used as a single door alarm when used with a horn and power supply.

EL - Electrically Locked (Fail Safe)

Fail Safe locks require power to lock. In the event of a power outage the door will automatically unlock, thus ensuring a safe egress during emergency situations.

EU - Electrically Unlocked (Fail Secure)

Fail Secure locks require power to unlock. In the event of a power outage the door will automatically lock, thus preventing access and protecting all assets within it. This feature is not permitted on fire doors.

Electrical requirements

Electrified functions - EU and EL

- 24 Volts AC/DC +/- 10% Operating current 0.145 Amp.
- 12 Volts AC/DC +/- 10% Operating current 0.293 Amp.

* All solenoids are continuous duty.

RX - Functions

- Voltage 250 VAC. Current rating 1 Amp. Wire leads 22 AWG.

The 3-wire utilizes a UL recognized SPDT switch providing a choice of:

- * For normally closed operation use the white (COM.) and gray wires.
- * For normally open operation use the white (COM.) and purple wires.

Electric Mortise Lock



The most robust lock platform for maximum security requirements.

Options

SS - Signal Switch

Detection of auxiliary latchbolt status through SPDT switch.

EL/EU - M1105EL (Fail Safe) or M1205EU (Fail Secure)

Voltage options 12 or 24 VDC (Must be specified when ordering).

RX - Request to Exit

Micro switch positioned inside the lock case monitors the lever/knob position.

LM - Latchbolt Monitoring

Latchbolt monitoring is an SPDT switch which monitors the latchbolt position.

Electrical Specifications:

Solenoid current: 24 VDC, 0.33 Amp.
12 VDC, 0.66 Amp.

Switch rate: 24 VDC, 2 Amp SPDT.
SPDT (Single Pole, Double Throw)

Electric Exit Device



ELR (Electrical Dogging)

Electric Latch Retraction

Access and exit point control and monitoring.

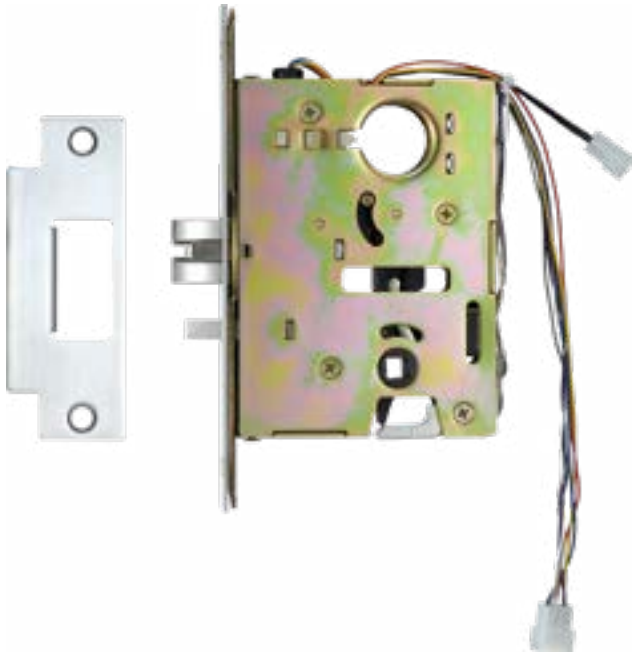
ELR provides the ability to remotely retract the latchbolt. Continuous duty solenoid can retract latchbolts under conditions of unlatching or continually dogging. The ELR option can be applied with card readers, toggles or key switches, push buttons and fire alarm systems. PS100 power supply is required for the use of ELR option.

- UL/cUL Listed for Panic and Fire for Class 2 Circuitry.
- ELR is available with Manual Flat/ Hex Key for Panic Exit Devices.

Solenoid Specifications

- Current Pulse (0.3 seconds): 24 VDC, 16 Amp.
- Continuous: 24 VDC, 0.25 Amp
Requires PS100 Power Supply.

Electric Mortise Lock Exit Device



The Electric Mortise Exit Devices (E1400) can control entry to remote locking and unlocking the outside trim or an automatic fire alarm system.

The remote has two main functions:

1. To monitor the lock or unlock status through the SPDT signal.
2. To monitor the auxiliary latchbolt status through the SPDT signal.

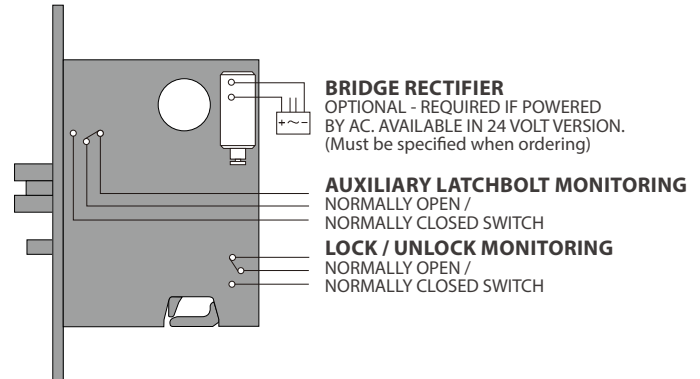
The outside trim cylinder can retract the latchbolt as a night latch function.

The Electric Mortise Exit Device is available with the following electrical options:

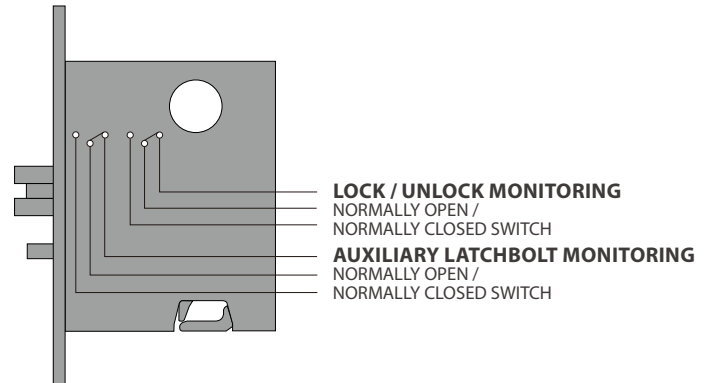
- E1400 - Electric lock/unlock with switches to monitor the outside trim (locked or unlocked) and to monitor the latchbolt.
- SS1400 - Latchbolt and trim locked or unlocked monitoring.

Wiring Diagram

E Mortise Function



SS Mortise Function



Mortise case Only:

E7000 - Mortise case for E1400 model.

SS7000 - Mortise case for SS1400 model.

Electrical Ratings:

The Mortise Lock is furnished standard as Fail Secure (FSE). When power is off, the trim is locked. Power is applied to unlock the trim. It may be field converted to a Fail Safe (FS) mode. (FS) - power is applied to lock the trim.

- Solenoid current: 24 VDC, 0.25 Amp.
12 VDC, 0.5 Amp.
- Switch rate: 24 VDC, 2 Amp SPDT.
SPDT (Single Pole, Double Throw).

Exit Device Electric Trim



E300 Series

Electrified trim with integrated lock/unlock option. Trim can be used for all 1000 Series models. Available as fail-secure or fail-safe.

Specify suffix FSE (Fail-Secure) or FS (Fail-Safe) following trim designation.

Electrical Ratings

Solenoid current: 24 VDC, 0.25 Amp.
12 VDC, 0.5 Amp.

Electrical Trim - E300 Series

						
Operation	Electrified trim with integrated lock/unlock option (Night Latch Key Retracts Latchbolt)			Electrified trim with integrated lock/unlock option (no Cylinder)		
Trim No.	E309R	E309M		E314R	E314M	
Device No.	1100/1105			1100/1105		
	1200			1200		
	1300			1300		
		1400			1400	
	1500			1500		
Cylinder Type	RIM	Mortise				

Electrical Strike

Converts non-electric locking devices into electrified controlled access points.



- UL/ULC compliant for 3-hour fire Rating (fail secure only).
- UL 1034 compliant for burglary-resistant electric locking mechanisms.
- UL 294 compliant for access control system units (7th edition).
- ANSI/BHMA A156.31 Grade 1 Electric Strikes Standard.
- Static strength 1,500 lbs.
- Dynamic strength 70 ft-lbs.
- Endurance 500,000 cycles.

Frame Application Electrical (continuous duty)

- | | |
|-------------|--------------------|
| • Metal. | • 12 VDC, 0.26Amp. |
| • Wood. | • 24 VDC, 0.13Amp. |
| • Aluminum. | |



ES100

- Field selectable fail secure / fail safe.
- Field adjustable integrated shim.
- Non-handed.
- Accommodates cylindrical and mortise locks.
- Accommodates 1/2"~1-3/4" (12.7mm ~19.1mm) latch projection.
- Accommodates 1" (25.4mm) deadbolt.



ES200

- Field selectable fail secure / fail safe.
- Surface mounted, no frame cutting required.
- Non-handed.
- Accommodates Rim Exit Devices with a Pullman latch.
- Accommodates 1/2"~1-3/4" (12.7mm~19.1mm) latch projection.

Door Operator



Specifications

Electrical Data	• Power input 110~240 VAC, 50/60Hz
	• Current draw 1A
	• Power output 24VDC @ 0.5A max draw

Functions

Hold Open Mode

- Opens and holds the door in full open with the option for a preset period of time or until power is turned off.

Ventilation Mode

- Door opens automatically when triggered by alarm system for air or smoke flow until signal is ceased.

Emergency Relay

- Overrides all existing activation and keep the door closed until the emergency signal is ceased.

Latch Assist Mode

- Pulls in the door to assist the lock's latch engagement when the Door Operator is at closed position.

Obstruction Mode

- Door stops when it detects obstruction when opening or closing.

Open Delay Mode

- Delay opening of the door when it is needed by the door lock hardware.

Disable Push Button

- Outside push button is disabled when activated.

Power Close Mode

- Light amount of power is applied to assist the closing when the door is between 10° and 0° position.

Obstruction Detector

- Detects obstruction presence for when the Door Operator is at open or closed position.

Push Open Mode

- The operator opens the door to full-open position when manual push force is detected on the door.

Mode Selector

- On - Allows signal inputs
- Off - Disables all signal inputs except Ventilation Mode
- Hold Open Mode - Opens and Holds the door in full open.

Vestibule Delay Mode

- First door and second door opens in sequential order with second door in delay. Delay time of the second door is adjustable.

Door Closer Mode

- Works as a door closer when electric power is turned off.

Power Supply



PS100

The PS100 Power Supply is applicable for wide range of electrical products and the School Security System.

There is an option to add a key to lock the enclosure. The battery has two hours of backup power at full load during an A.C. power failure. Batteries will automatically recharge once power is restored. Fire alarm provides an input for a normally closed fire alarm contact. When the fire alarm contact is "open", the power to locks or other components are removed. Restoring power is field selectable (automatic or manual).

Certification

UL/cUL listed as a power supply unit class 2, UL294, UL1034 and ULC-S318 requirements.

Specifications

- UL/cUL listed for Class 2 output.
- LED indicators for AC input, DC output and battery backup status.
- The power supply can control up to (4) delayed egress exit devices.

Optional Circuit Cards

The PS100 Series is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

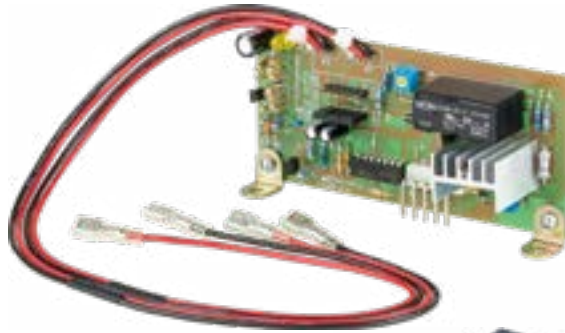
- Circuit breakers provide protection for motherboard.
- Standard input options:
 - 120 VAC, 1.0 Amp or
 - 240 VAC, 0.5 Amp.
- Output power:
 - 24 VDC, 2 Amp or
 - 12 VDC, 2 Amp.
- Power supply box:
 - 10" high × 12-1/2" wide × 5" deep (254mm × 318mm × 127mm), gray with a hinged cover and constructed of heavy 20 gauge steel.
- 3 options:
 - (1) Key lock.
 - (2) Fire alarm.
 - (3) Battery backup (2 hrs.) during AC power failure.

Maximum wire run:

- 75 ft. with 14 gauge wire and 28 gauge power transfer.
- 100 ft. with 14 gauge wire and 24 gauge power transfer.
- 200 ft. with 12 gauge wire and 24 gauge power transfer.



100-2 Two (2) Zone Controller Board



100-BB Battery Backup



100-FA Fire Alarm

Power Transfer - EPT

EPT-1 Power Transfer comes with steel housing and flexible tube. A secure and inconspicuous channel brings power from the frame to the door. A narrow, shallow channel easily mortises into door edges. The EPT-1 Power Transfer accepts up to 3/8" (9.5mm) diameter wire bundle and accommodates doors that swing open 120 degrees. The unit is concealed when the door is closed and is suitable for wood, aluminum, or steel door applications.

EPT-2 Armored flex conduit. Accepts up to 1/4" (6.4mm) diameter wire bundle.



EPT-1

EPT-2

Power Adapter

The power adapter can be used for supplying power to the detectors, sensors, devices, electric locks, readers, or other electrical devices.



Electrical Ratings

Input : 100~240VAC, 50~60HZ.

Output : 24VDC, 2.5A.

Manual Operations

When individual door security is needed without remote or centralized monitoring, manual operation is the best solution, protected by Klacci's robust door locks and hardware.

- An economic budgetary solution that won't compromise your security
- Klacci offers a wide range of mechanical and standalone electrical lock and hardware selection including cylindrical locks, mortise locks, deadbolt locks, and exit devices.
- There is an option to include a visual indicator on the devices, so faculty are confident they are protected.
- No complex wiring is needed for installation and no centralized service maintenance is required.



M/M1 Series Mortise Lock with interior side indicator



**LF Series Cylindrical Lock with
"LOCK" mark inside rose**



**1000 Series Exit Device with
interior side indicator**



About Klacci

Klacci, a registered brand of the world-renowned I-TEK Company, provides the commercial and residential markets with second to none access control and lock products. The company offers an extensive selection of mechanical, electrical, and biometric locks that reflect the demands of today's modern lifestyle.

Klacci's drive for design excellence and innovation is only matched by I-TEK's manufacturing expertise which spans more than five decades.

Safety and Security

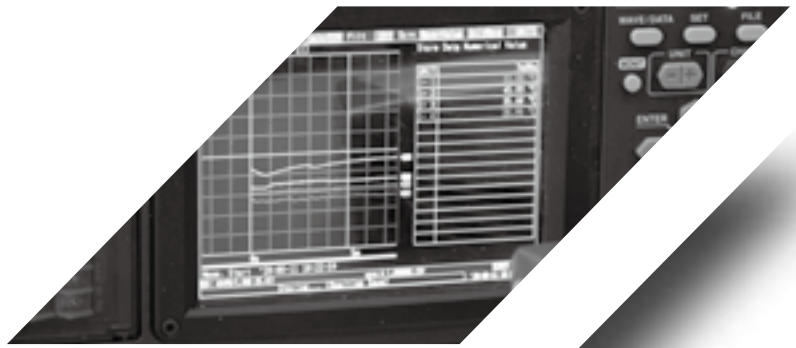
Klacci, a registered member of the Builders Hardware Manufacturers Association (BHMA), possesses an Intertek certified and ISO17025 compliance laboratory within its facility, one of the few in Asia.

Before our products are sold and installed, our laboratory performs various and rigorous testing procedures to make sure all our products meet and exceed the minimum requirements that are specified and meet the respective standards of ANSI/BHMA, UL, ASTM, etc.

Certificates

All products are continuously certified under the Follow-up Service Program to meet the most updated mechanical lock and electrical access control standards. The UL10C Standard for Positive Pressure Fire Tests listing of our products is part of Klacci's commitment to life safety and security.





Project References

Projects	Locations
Commercial Buildings at Raha Beach	Saudi Arabia
Glorietta 1 BPO (Commercial Building)	Makati City, The Philippines
Glorietta 2 BPO (Commercial Building)	Makati City, The Philippines
Starmall BPO Las Pinas (Commercial Building)	Las Pinas City, The Philippines
The Business Center (Commercial Building)	Pasig City, The Philippines
Taylor University Dormitory	Indiana, USA
NCKU, Department of Aeronautics	Tainan, Taiwan
NCKU, Department of Aeronautics (iF+Series Bi-System Touchless Smart Lock)	Taipei, Taiwan
Saudi Electricity Co. (SEC)	Jeddah, Saudi Arabia
Saudi Electricity Co. (SEC)	Dammam, Saudi Arabia
Saudi Electricity Co. (SEC)	Ras-Al Khair, Saudi Arabia
Saudi Electricity Co. (SEC)	Riyadh, Saudi Arabia
Saudi Electricity Co. (SEC)	Khafji, Saudi Arabia
Saudi Electricity Co. (SEC)	Juyamah, Saudi Arabia
Saudi Electricity Co. (SEC)	Uqair, Saudi Arabia
Saudi Electricity Co. (SEC)	Shedgum, Saudi Arabia
Sub-station buildings - Saudi Electricity Co	Saudi Arabia
Power Plants	Saudi Arabia
Texas Department of Transportation	Texas, USA
NASA	USA
Saudi Aramco	Rabigh, Saudi Arabia
Saudi Defense Department	Saudi Arabia
NATIONAL HISTORY MUSEUM	Saudi Arabia
Lab building	Saudi Arabia
Okinawa Military Base	Japan
Camp Fuji	Japan
AGC	Japan
The 3rd Precinct	Tainan, Taiwan
Kaohsiung Rapid Transit	Kaohsiungm, Taiwan
Hotel/Private/Public Project	USA, Canada, Europe, Australia, The Philippines, Macau, Vietnam, Bangladesh
Ambulatory Clinic Jebel Hafeet (Clinic Center)	Saudi Arabia
Cordoba (Phase 1) (Residential Building)	Saudi Arabia
THE RESIDENCE LAGOS 11 (Residential Building)	Saudi Arabia
Hospital Project	Saudi Arabia
Saudi Entertainment Ventures	Saudi Arabia
Petro Rabigh chemical plant - Rabigh	Saudi Arabia

Projects

Locations

R&D Building-Dhahran Techno Valley	Saudi Arabia
City of Dream Hotel	Macau
The Venetian Hotel	Macau
LG Science Park	Korea
Apple Store	Korea
Holiday Inn Makati	Makati City, The Philippines
Park Inn Hotel Davao	Davao City, The Philippines
Daewoo Amara Hotel	Yangon, Myanmar
Nan Shan Building	Taipei, Taiwan
National Taiwan University Hospital	Taipei, Taiwan
Hotspring Hotel	Taichung, Taiwan
Central Taiwan Science Park Dormitory	Taichung, Taiwan
Southern Taiwan Science Park Project (STSP)	Tainan, Taiwan
Park Dream Housing in Kaohsiung	Kaohsiungm, Taiwan
Al Quwaieyah Mall, KSA(Shopping Mall)	Saudi Arabia
Starmall Bataan (Shopping Mall)	Bataan, The Philippines
Robinson's General Trias (Shopping Mall)	General Trias, Cavite, The Philippines
Robinson's Ilocos (Shopping Mall)	Ilocos, The Philippines
Robinson's Tacloban (Shopping Mall)	Tacloban City, The Philippines
Glorietta 1 (Shopping Mall)	Makati City, The Philippines
Glorietta 2 (Shopping Mall)	Makati City, The Philippines
Ayala Ceneter Cebu (Shopping Mall)	Cebu City, The Philippines
Fairview Terraces (Shopping Mall)	Fairview, Quezon City, The Philippines





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