

Remote Car Alarm Keyless Entry Security System + 4 Door Power Lock Actuator Motor Kit

Model: SX-CA4D-330 | Universal Vehicle Security & Central Locking Solution

The **Shengxin SX-CA4D-330** is a complete universal vehicle security and keyless entry system designed for 2-door and 4-door vehicles. This all-in-one kit combines a fully-featured remote car alarm with four heavy-duty power door lock actuator motors, providing seamless remote central locking, anti-theft protection, and keyless entry convenience. Operating on 433.92 MHz RF with up to 100 m range, it features dual-stage shock sensing, starter immobilization, and multiple auxiliary outputs for expanded functionality.

Package Contents

No.	Component	Qty
1	Main Control Module (Host Unit)	1 pc
2	5-Wire Master Actuator (Driver Door)	1 pc
3	2-Wire Slave Actuator (Passenger & Rear Doors)	3 pcs
4	Remote Control Key Fobs (3-Button)	2 pcs
5	120 dB Alarm Siren	1 pc
6	Dual-Stage Shock / Vibration Sensor	1 pc
7	LED Status Indicator (Red)	1 pc
8	Hood / Bonnet Pin Switch	1 pc
9	Main Wiring Harness with Pre-crimped Connectors	1 set
10	Metal Mounting Brackets	4 pcs
11	Metal Connecting Rods	4 pcs
12	Rod Clamps, Screws & Fasteners	1 set
13	Installation & User Manual	1 pc

Technical Specifications

Main Control Module

Parameter	Specification	Parameter	Specification
Operating Voltage	DC 12V \pm 2V	Static Current	< 10 mA
Operating Frequency	433.92 MHz	Receiving Sensitivity	-108 dBm
Max Remote Distance	Up to 100 m (open field)	Response Time	0.2 ~ 0.3 s
Working Temperature	-30°C ~ +80°C	Housing Material	ABS (flame-retardant)
Dimensions (L x W x H)	Approx. 135 x 90 x 32 mm	Weight	Approx. 210 g

Door Lock Actuator Motors (4-Piece Set)

Parameter	Specification	Parameter	Specification
Motor Type	High-torque DC, ultrasonic welded sealed housing	Load Current	2.3 ~ 2.5 A
Operating Voltage	DC 12V	No-Load Current	≤ 0.15 A
Stroke Length	18 mm ± 1 mm	Push / Pull Force	≥ 3.5 kg (32 N)
Static Torque	2.0 ~ 3.0 kg	Dynamic Torque	4.5 ~ 5.5 kg
Rotation	Full 360° rotatable head	Duty Cycle Life	≥ 100,000 cycles
Water Resistance	IP54 equivalent (sealed housing)	Housing Material	ABS + nylon internals
Dimensions per Unit	Approx. 140 x 60 x 28 mm	Weight per Unit	Approx. 180 g
Wiring Config.	1x 5-wire master + 3x 2-wire slave		

Remote Key Fob & Alarm Siren

Remote Key Fob	Specification	Alarm Siren	Specification
Remote Voltage	6V (2x CR2016 cells)	Siren Sound Level	120 dB
Tx Power / Frequency	10 dBm / 433.92 MHz	Siren Tones	6-tone programmable
Modulation / Buttons	ASK / 3 (Lock, Unlock, Aux)	Siren Voltage / Current	DC 12V / ≤ 1.2 A (peak)
Static Current	< 1 µA	Siren Housing	Weatherproof ABS, black
Material / Indicator	ABS+TPU overmold / Red LED	Dimensions / Weight	~60x35x14 mm, 28 g

Key Features & Functions

Security & Anti-Theft

- **Starter Kill / Engine Immobilizer** — Cuts the ignition or starter circuit when the system is armed, preventing the engine from being started.
- **Dual-Stage Shock Sensor** — Light impacts trigger warning chirps; heavy impacts activate the full 30/60-second alarm siren with flashing lights.
- **Ignition Tamper Trigger** — Alarm sounds immediately if the ignition is tampered with while the system is armed.
- **Hood & Trunk Protection** — Includes a hood pin switch; instantly triggers the alarm if the hood, trunk, or any protected zone is opened.
- **Carjack / Anti-Hijack Mode** — Activates the alarm system 60 seconds after remote arming while driving to deter carjacking.
- **Panic Mode** — Press and hold the Lock button for 3 seconds to activate a 60-second panic alarm with flashing hazard lights.
- **Auto Alarm Reset** — Alarm automatically resets after 30 or 60 seconds and re-arms to prevent continuous battery drain.
- **LED Visual Deterrent** — Bright flashing red LED warns potential thieves that the security system is armed and active.

Keyless Entry & Convenience

- **Remote Lock / Unlock** — Lock and unlock all four doors simultaneously with a single press of the remote key fob.
- **Silent Arm / Disarm** — Arm or disarm the system without audible confirmation chirps for discreet operation.
- **Car Finder** — Press the auxiliary button to flash the parking lights ten times to locate your vehicle in crowded parking lots.
- **Ignition Auto-Lock** — Doors automatically lock when the ignition is turned ON for enhanced driving safety.
- **Ignition Auto-Unlock** — Doors automatically unlock when the ignition is turned OFF for convenient exit.
- **Passive / Last Door Arming** — System automatically arms itself 30 seconds after the last door is closed (configurable).
- **Trunk Release Output** — Dedicated auxiliary output channel for remote trunk/hatch release (add-on relay required, not included).
- **Window Roll-Up Output** — Auxiliary channel for automatic window closure when armed (add-on module required, not included).
- **Valet / Service Mode** — Temporarily disables alarm functions while retaining keyless entry for workshop servicing and valet parking.

Hardware & Build Quality

- **4x Heavy-Duty Actuator Motors** — One 5-wire master and three 2-wire slave actuators rated for over 100,000 lock/unlock cycles.
 - **Ultrasonic Welded Sealed Housings** — Weather-resistant (IP54 equivalent) actuator housings protect internal components from moisture and dust.
 - **360° Rotatable Actuator Heads** — Flexible connecting rod alignment accommodates various door configurations and lock rod orientations.
 - **Universal Vehicle Compatibility** — Fits most 12V vehicles without factory-installed central locking. Not compatible with CANBUS systems.
 - **Complete Wiring Harness** — Color-coded wires with pre-crimped connectors for straightforward identification and reliable connections.
 - **120 dB 6-Tone Weatherproof Siren** — High-output alarm siren with programmable tone patterns for customizable alert sounds.
 - **Durable 3-Button Key Fobs** — ABS + TPU overmolded construction with built-in red LED transmission indicator for long service life.
 - **All Mounting Hardware Included** — Metal brackets, connecting rods, rod clamps, screws, and fasteners for a complete installation.
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Application Areas & Scenarios

Passenger Vehicles — Sedans, hatchbacks, SUVs, and MPVs without factory-installed central locking. Ideal for aftermarket upgrades on older or base-model vehicles with 2-door or 4-door configurations.

Commercial Fleets — Vans, pickup trucks, light-duty trucks, and delivery vehicles. Centralized locking and anti-theft protection improve fleet operational efficiency and vehicle security.

Classic & Custom Cars — Classic car restorations, kit cars, and custom builds requiring a standalone remote locking and alarm solution independent of factory electronics.

Specialty Vehicles — Golf carts, utility vehicles (UTVs), and other 12V specialty vehicles needing basic security and remote central locking functionality.

Auto Service Centers — Professional installation shops offering vehicle security upgrades. One universal SKU covers most non-CANBUS installation jobs, reducing inventory complexity.

Emerging Markets — Cost-effective vehicle security solution for regions where factory immobilizers and central locking are not standard. Widely distributed across Southeast Asia, Africa, Middle East, and South America.

Installation Guide

WARNING: Professional installation by a qualified auto electrician is strongly recommended. Working with vehicle electrical systems and door panels requires specialized knowledge and tools. Incorrect installation may cause electrical damage or interfere with vehicle safety systems.

- 1. Preparation:** Disconnect the vehicle battery negative (-) terminal. Gather all necessary tools: screwdrivers, trim removal tools, multimeter, wire strippers, crimping tool, electrical tape, and zip ties.
 - 2. Mount Control Module:** Secure the main control module under the dashboard, away from moving parts (pedals, steering column). Ensure it is protected from direct heat sources and moisture.
 - 3. Install Actuators:** Remove each door panel. Mount one actuator per door using the provided metal brackets and screws. Attach the connecting rod to the door's existing lock mechanism. **Critical:** Verify full window glass clearance before finalizing the position.
 - 4. Route & Connect Wiring:** Route the wiring harness through factory rubber grommets between the door and vehicle body. Connect the 5-wire master actuator to the driver's door, each 2-wire slave to remaining doors. Follow the color-coded wiring diagram provided.
 - 5. Install Siren & Hood Switch:** Mount the siren in the engine bay facing downward to prevent water accumulation. Install the hood pin switch on a grounded metal surface that makes firm contact when the hood is closed.
 - 6. Connect Power & Ignition:** Connect the main +12V power wire (red) to a constant fused 15A source. Connect the ground wire (black) to a solid chassis ground. Connect the ignition sense wire and wire the starter kill relay in-line with the starter solenoid circuit.
 - 7. System Testing:** Reconnect the battery and test every function: remote lock/unlock, shock sensor sensitivity, siren activation, hood trigger, starter kill, ignition auto-lock/unlock, panic mode, and silent arm/disarm. Adjust shock sensor sensitivity as needed.
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Remote Control Operation

Function	Operation	System Response
Lock / Arm	Press Lock once	Doors lock, system arms, LED flashes, 1 chirp
Unlock / Disarm	Press Unlock once	Doors unlock, system disarms, LED off, 2 chirps
Silent Arm/Disarm	Lock + Unlock together	Same as above, without audible confirmation
Panic Alarm	Hold Lock for 3 seconds	Siren sounds 60s, parking lights flash
Car Finder	Press Auxiliary once	Parking lights flash 10 times (no siren)
Carjack Mode	Aux twice (ignition ON)	Alarm activates after 60 seconds
Valet Mode	IGN ON, Lock + Aux for 2s	Alarm disabled; remote lock/unlock remains active
Emergency Disarm	IGN ON-OFF-ON within 5s	Disarms system if remote lost or battery dead

Setup & Programming

- **Remote Pairing:** Turn ignition ON-OFF-ON 5 times within 7 seconds. The siren chirps once to confirm learning mode. Press any button on each remote to pair (up to 4 remotes). Turn ignition OFF to exit.
- **Shock Sensor Adjustment:** Adjust the sensitivity dial on the sensor unit with a small screwdriver. Turn clockwise to increase sensitivity, counter-clockwise to decrease. Test by tapping the vehicle body.
- **Siren Tone Selection:** Cut or connect the tone-select loop wire on the siren to cycle through 6 available tone patterns. Choose the pattern best suited to your needs.
- **Passive Arming:** Enable or disable via the programming jumper on the control module. When enabled, the system arms automatically 30 seconds after the last door is closed.
- **Door Lock Pulse Duration:** Default 0.8 seconds (suitable for electric actuators). Adjustable to 3.5 seconds via jumper for vehicles with vacuum/pneumatic locking systems.

Product Images



Image 1



Image 2



Image 3



Image 4



Image 5



Image 6

Safety Compliance & Ordering Information

Safety & Compliance	Details	Ordering Information	Details
Certifications	CE, FCC, RoHS compliant	Model Number	SX-CA4D-330
RF Standard	ETSI EN 300 220-1 (433.92 MHz)	HS Code	8512.30.10
EMC Compliance	ETSI EN 301 489-3	Gross Weight	Approx. 1.0 kg
IP Rating	Actuators: IP54 eqv.; Module: IP40	Package Dims.	Approx. 320 x 220 x 85 mm
Operating Temp.	-30°C to +80°C	MOQ	Negotiable; contact sales
Warranty	12 months	Sample	Available; contact for pricing
Design Lifetime	≥ 100,000 cycles	Lead Time	7-15 business days
		Payment Terms	T/T, L/C, PayPal, WU
		OEM / ODM	Available (custom branding)

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