

PKE Passive Keyless Entry System

Push Button Engine Start / Stop | Remote Start | Car Alarm

Model: KKE-01 Series | DC 12V Universal | Frequency: 433.92 MHz | Rolling Code Security



PRODUCT OVERVIEW

The Shengxin KKE-01 Series PKE (Passive Keyless Entry) System is an advanced aftermarket automotive electronics solution that upgrades conventional key-ignition vehicles with modern smart-key functionality. This all-in-one system integrates Passive Keyless Entry (PKE), Push-Button Engine Start/Stop, Remote Engine Start, and a comprehensive anti-theft alarm system. Designed for universal compatibility with most DC 12V petrol and diesel vehicles, it offers hands-free convenience — doors automatically unlock as you approach and lock as you walk away. The system employs rolling-code RFID technology on the 433.92 MHz frequency band, ensuring robust security and reliable communication up to 150 metres.

Model: KKE-01 Series | Voltage: DC 12V Universal | Frequency: 433.92 MHz | Communication: One-Way / Rolling Code

TECHNICAL SPECIFICATIONS

Product Model	KKE-01 Series (KKE0101 – KKE0106 variants)
Operating Voltage	DC 12V (±3V, working range 10V – 16V)
Quiescent Current	< 10 mA (energy-saving standby mode)
Working Frequency	433.92 MHz (ISM band)
Modulation	FSK / ASK
Code Type	Learning Code / Rolling Code (anti-scan, anti-grab)
PKE Sensing (Unlock)	1.5 – 3.0 m (auto-unlock on approach)
PKE Sensing (Lock)	3.0 – 5.0 m (auto-lock on walk-away)
Remote Control Range	50 – 150 m (open field, key fob)
Alarm Loudness	≥ 105 dB
Alarm Response Time	≤ 1 second
Smart Keys Supported	2 included; up to 4 programmable
Push Start Button	LED-illuminated, 12V, rated 5A, 50,000+ cycle life
Shock Sensor	Built-in, adjustable sensitivity
Operating Temperature	-30 °C to +80 °C
Storage Temperature	-40 °C to +85 °C
Material	ABS engineering plastic (housing), FR-4 PCB, copper harness
Main Unit Dimensions	~130 x 95 x 30 mm
Package Dimensions	~260 x 160 x 190 mm
Package Weight	~900 – 950 g
Certifications	CE, FCC, RoHS
Warranty	18 months from date of purchase

KEY FEATURES

Passive Keyless Entry (PKE)

True hands-free operation. The vehicle automatically unlocks when the smart key fob enters the 1.5 – 3 m proximity zone, and automatically locks when the key fob leaves the 3 – 5 m range. No button press required — simply carry the key in your pocket or bag.

Push-Button Engine Start / Stop

Replace the traditional ignition key with a stylish LED-illuminated push-start button. Press brake + button to start the engine; press the button for 2 seconds to stop. Intelligent ACC/ON/START power sequencing mimics OEM push-start behaviour.

Remote Engine Start (Key Fob)

Start your engine remotely from up to 150 m away. Pre-warm the cabin in winter or pre-cool it in summer before you enter. A built-in 10-minute automatic shut-off timer prevents unnecessary idling. Handbrake safety interlock is included.

Comprehensive Anti-Theft Alarm

Built-in shock sensor triggers a 105+ dB siren upon impact or unauthorised entry. Engine immobiliser prevents starting without the authenticated smart key. Panic mode can be activated remotely. Illegal door-opening and ACC-trigger detection included.

Smart Automation Logic

Auto door lock when foot brake is pressed after engine start; auto door unlock when engine is turned off. Intelligent oil-pump detection confirms the engine is running before disengaging the starter motor. Central door locking automation included.

Emergency Override System

If the smart key fob is lost or damaged, the system can be disarmed and the engine started via a hidden emergency button and PIN-code sequence, ensuring you are never stranded.

Remote Convenience Functions

Remote trunk/boot release (requires OEM trunk motor), remote car-finder (horn honk to locate vehicle in parking lots), and PKE temporary disable mode for car washes or servicing.

Universal 12V Compatibility

Compatible with ~90-95% of DC 12V petrol and diesel vehicles — sedans, hatchbacks, SUVs, MPVs, and pick-up trucks. Supports both automatic and manual transmissions (manual requires handbrake wire connection).

FUNCTION LIST

#	Function	Description
1	Passive Auto Unlock	Doors unlock automatically when key approaches (1.5 – 3 m)
2	Passive Auto Lock	Doors lock automatically when key walks away (3 – 5 m)
3	Push Button Start	One-touch engine ignition via illuminated start button
4	Push Button Stop	One-touch engine shut-off (2-second press)
5	Remote Engine Start	Start engine via key fob from up to 150 m
6	Remote Engine Stop	Stop engine via key fob remotely
7	Shock Alarm	105 dB siren triggered by impact or vibration
8	Engine Immobiliser	Prevents ignition without authenticated smart key
9	Panic Mode	Remote-triggered alarm for emergency situations
10	Car Finder	Remote horn honk to locate vehicle in car parks
11	Remote Trunk Release	Open boot via key fob (OEM trunk motor required)
12	Auto Lock on Drive	Doors lock when foot brake is pressed after start
13	Auto Unlock on Stop	Doors unlock when engine is turned off
14	PKE Temporary Disable	Suspend auto-sensing for car wash / service
15	Emergency Override	PIN-code disarm & start if key fob is lost or damaged
16	LED Status Indicator	Visual feedback of system armed / disarmed state
17	Low Battery Warning	Alert when key fob battery requires replacement
18	Rolling Code Security	Anti-scan & anti-grab RF encryption technology
19	Intelligent Starter Cut	Oil-pump detection prevents starter motor over-run
20	10-min Auto Shut-off	Safety timer for remote-started engines

APPLICATIONS & SCENARIOS

Daily Commuting

Hands-free entry and push-button start eliminate the need to fumble for keys — ideal for busy professionals. Auto-lock on walk-away provides peace of mind in office car parks and public spaces.

Extreme Weather Convenience

In cold winters, remote-start the engine to pre-heat the cabin and defrost windows before you leave home. In hot summers, pre-cool the interior by leaving the A/C on and starting remotely.

Fleet & Rental Vehicles

Upgrade standard fleet vehicles with keyless entry for improved driver experience. Engine immobiliser and alarm provide enhanced security in shared-use scenarios.

Ride-Sharing & Taxi Services

Quick entry/exit and push-button operation reduce dwell time. PKE auto-lock ensures the vehicle is secured between trips.

Aftermarket Vehicle Upgrade

Add modern smart-key functionality to older vehicles (pre-2015 models) that lack factory keyless entry. Compatible with a wide range of petrol and diesel engines — sedans, SUVs, hatchbacks, and light trucks.

Security-Conscious Environments

Rolling-code encryption, engine immobiliser, and shock alarm provide a robust anti-theft layer for vehicles parked in high-risk areas or overnight on streets.

HOW TO USE

Step 1: Carry the Smart Key

Keep the smart key fob in your pocket, bag, or on your person. The PKE system continuously communicates with the key fob via 433.92 MHz RF signals. No further action is required for auto-lock and auto-unlock functions.

Step 2: Approach the Vehicle

Walk toward the vehicle with the smart key. When you enter the 1.5 – 3 m sensing zone, the system authenticates the key's rolling code and automatically unlocks the doors. Turn indicators flash once to confirm.

Step 3: Start the Engine

Enter the vehicle, press and hold the brake pedal, then press the push-start button for approximately 1 second. The system performs ACC to ON to START sequencing automatically. The LED ring on the button illuminates to indicate status.

Step 4: Drive (Auto Lock)

After the engine starts, press the foot brake to shift into gear — the doors automatically lock for safety. The system remains in monitoring mode throughout the journey.

Step 5: Stop the Engine

Bring the vehicle to a complete stop, engage the parking brake (handbrake), place the transmission in Park (automatic) or Neutral (manual), then press the push-start button for approximately 2 seconds. The engine will shut off and doors will automatically unlock.

Step 6: Walk Away (Auto Lock)

Exit the vehicle, close all doors, and walk away with the smart key. When you leave the 3 – 5 m sensing zone, the system automatically locks all doors and arms the alarm. The turn indicators flash once and the siren chirps to confirm.

Step 7: Remote Engine Start (Key Fob)

With the vehicle locked and handbrake engaged, press the remote start button on the key fob. The engine starts and runs for up to 10 minutes (auto-shut-off). Press the remote stop button to shut down early if needed.

Step 8: Emergency Override

If the smart key is lost or the battery is depleted: locate the hidden emergency button (installed during setup), enter your preset PIN code via the button sequence, then press the push-start button to start the engine normally.

PACKAGE CONTENTS

- 1 x Main Control Unit (ECU)
- 2 x Smart Key Fobs (PKE-enabled, battery pre-installed)
- 1 x LED Push-Start Button
- 2 x PKE Sensing Antennas (low-frequency)
- 1 x Main Wiring Harness (Start System)
- 1 x Detection Wiring Harness (Door Lock / Alarm)
- 1 x Shock Sensor Module (adjustable sensitivity)
- 1 x Emergency Reset / Override Button
- 1 x LED Status Indicator
- 1 x Siren (105 dB)
- 1 x Installation Hardware Kit (screws, cable ties, connectors)
- 1 x User Manual & Wiring Diagram (English)

IMPORTANT NOTES

- Professional installation by a qualified auto-electrician is strongly recommended. Improper wiring may cause damage to the vehicle's electrical system.

- A bypass module (sold separately) is required if the vehicle's OEM key contains an immobiliser chip (transponder).

- For diesel vehicles with start times exceeding 3 seconds, an additional timer delay switch is required (sold separately).

- Not compatible with vehicles that already have factory push-button start systems, pneumatic / vacuum central locking, or double-pulse door-lock signal systems.

- The PKE auto-sensing function can be temporarily disabled (car wash, servicing) via a key fob combination or the emergency button.

- Key fob batteries (CR2032 type) should be replaced every 12-18 months. Reduced sensing range and LED flashing indicate low battery.

- Always ensure the handbrake is engaged before using remote engine start.

CONTACT & ORDERING INFORMATION

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