HAvern K1S 30 50

HAvern Tuya Smart Fingerprint Electronic Lock Cylinder K1S 30 50 User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your HAvern Tuya Smart Fingerprint Electronic Lock Cylinder, model K1S 30 50. Please read this manual thoroughly before installation and use to ensure proper function and security.

2. PRODUCT FEATURES

- **Multiple Unlock Methods:** Supports unlocking via fingerprint, application (Tuya Smart App), mechanical key, and card.
- **Advanced Fingerprint Recognition:** Features a semiconductor fingerprint sensor with 360-degree recognition for quick access (0.3 seconds) and supports up to 100 users.
- **Durable Design:** Constructed from high-quality materials, offering waterproof and anti-fouling properties, wear-resistance, and scratch resistance.
- **Enhanced Security:** Includes anti-black box technology to prevent unauthorized electronic manipulation.
- **Adjustable Cylinder Length:** The lock cylinder can be adjusted to fit various door thicknesses, typically between 60-100mm.

Figure 2.1: The lock supports four distinct methods for unlocking: fingerprint, smart card, mobile application, and traditional mechanical key.

Figure 2.2: Overview of the lock's advanced features, including the semiconductor fingerprint sensor for rapid and accurate recognition, waterproof construction, and protection against electronic tampering.

3. SETUP AND INSTALLATION

3.1 Package Contents

Verify that all components are present in the package:

- Smart Fingerprint Lock Cylinder (K1S 30 50)
- Mechanical Keys
- Smart Cards (typically 5 pieces)
- Installation Screws and Tools
- User Manual

3.2 Measuring Your Door Cylinder

Before installation, accurately measure your existing door cylinder to ensure compatibility. The K1S 30 50 model refers to a cylinder length of 30mm on one side and 50mm on the other, totaling 80mm. The overall adjustable length is typically 60-110mm.

Powered By tuya BLE MESH

Smart Cylinder Lock
(Length: 30+50=80mm)

Silver
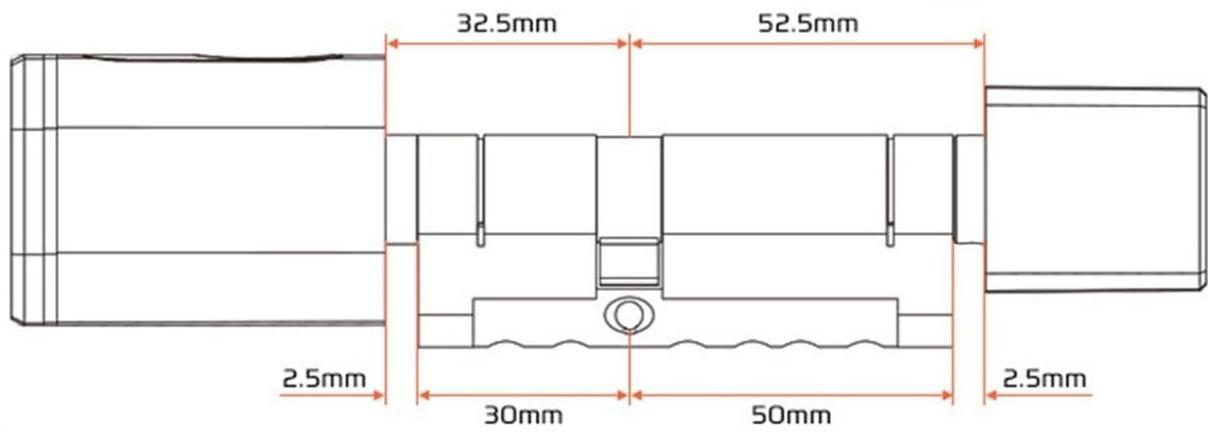
32.5mm — 52.5mm

2.5mm — 2.5mm

30mm — 50mm

Figure 3.1: Detailed dimensions of the K1S 30 50 smart cylinder lock, illustrating the 30mm and 50mm segments for a total length of 80mm.
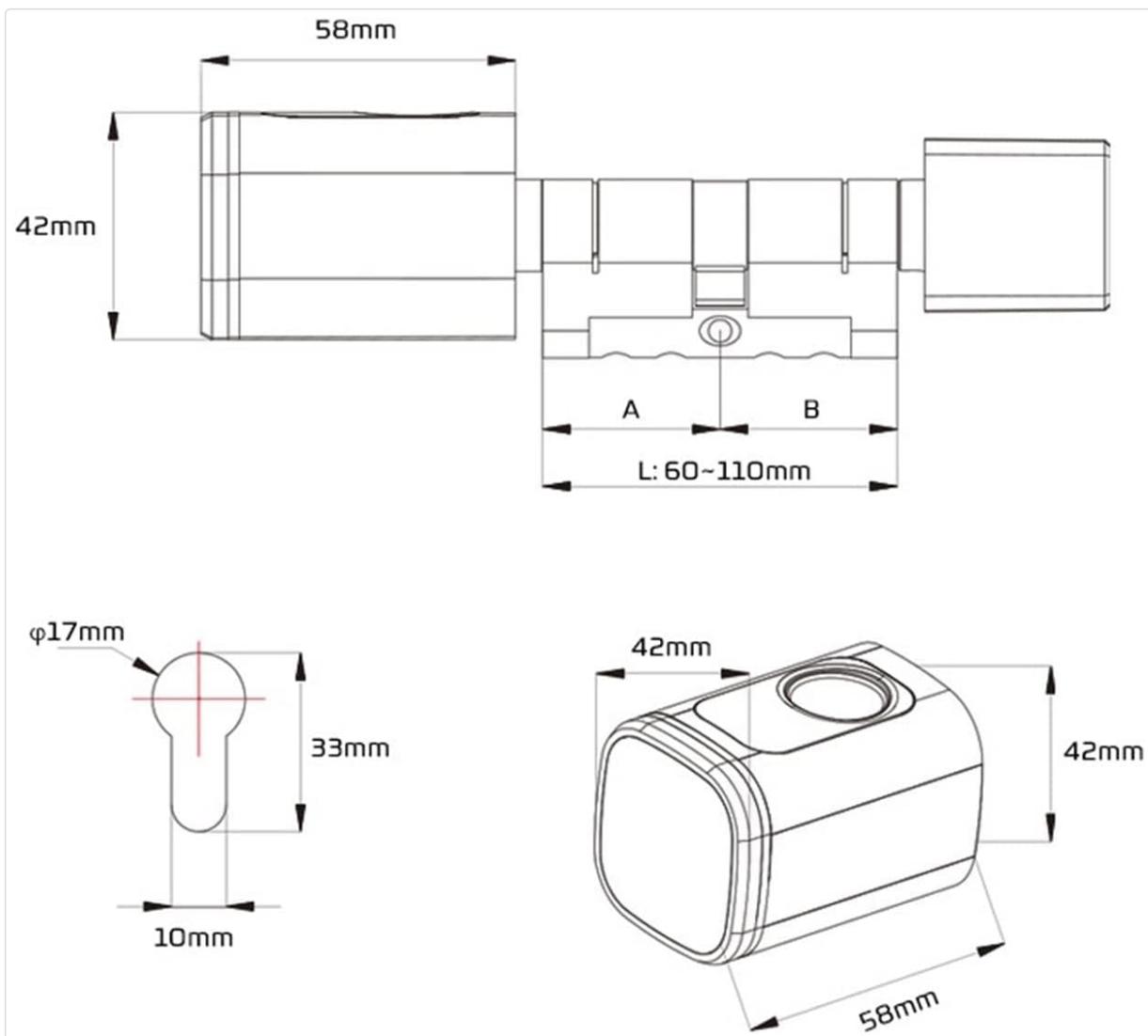
Figure 3.2: Technical specifications and measurements for the lock cylinder and keyhole, indicating an adjustable length range of 60-110mm.

3.3 Installation Steps

1. **Remove Old Cylinder:** Unscrew the retaining screw on the side of your door that holds the existing cylinder in place. Carefully slide out the old cylinder.

2. **Adjust New Cylinder:** If necessary, adjust the length of the new smart cylinder to match your door thickness. The cylinder is designed to be adjustable.

3. **Insert New Cylinder:** Insert the HAvern smart cylinder into the door, ensuring it is properly aligned with the lock mechanism.

4. **Secure Cylinder:** Re-insert and tighten the retaining screw to secure the new cylinder. Test the mechanical key to ensure smooth operation before proceeding.

5. **Install Outer Handle (if applicable):** Ensure any existing or new door handles are properly installed and do not obstruct the smart cylinder's operation.

Figure 3.3: The smart lock cylinder installed on a door, demonstrating its integration and the inclusion of smart keycards.

4. Operating Instructions

4.1 Initial Setup and App Connection

1. **Download Tuya Smart App:** Search for "Tuya Smart" in your mobile app store (iOS or Android) and download the application.
2. **Register/Log In:** Create a new account or log in to your existing Tuya Smart account.
3. **Add Device:** In the app, tap the "+" icon to add a new device. Select "Lock" or "Smart Lock" from the device categories.
4. **Pair Lock:** Follow the on-screen instructions in the app to put the lock into pairing mode. This usually involves pressing a button on the lock or performing a specific action. The app will detect and connect to the lock via Bluetooth (BLE Mesh).
5. **Configure Settings:** Once connected, you can set up administrators, add fingerprints, register smart cards, and manage user access through the app.

Figure 4.1: The smart lock integrated with the Tuya Smart application, allowing remote control and management via a smartphone.

4.2 Unlocking Methods

- **Fingerprint Unlock:** Place your registered finger on the fingerprint sensor. The lock will unlock if the fingerprint is recognized.
- **Card Unlock:** Present a registered smart card to the card reader area on the lock. The lock will unlock upon successful recognition.
- **App Unlock:** Open the Tuya Smart app on your smartphone, select the lock, and tap the unlock button. Ensure your phone is within Bluetooth range.
- **Mechanical Key Unlock:** Insert the mechanical key into the keyhole and turn to unlock the door. This method serves as a backup in case of power failure or electronic issues.

5. MAINTENANCE

- **Cleaning:** Wipe the lock surface with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the finish or electronic components.
- **Battery Replacement:** The lock is powered by batteries (type not specified, typically AA or AAA). Replace batteries when the low battery indicator appears or when performance degrades. Refer to the app for battery status.

- **Fingerprint Sensor Care:** Keep the fingerprint sensor clean and dry for optimal performance. Avoid scratching the sensor surface.
- **Mechanical Key Maintenance:** Store mechanical keys in a secure location. Periodically test the mechanical key to ensure it functions correctly.

6. TROUBLESHOOTING

- **Lock not responding:** Check battery levels and replace if necessary. Ensure the lock is properly installed and aligned.
- **Fingerprint not recognized:** Ensure your finger is clean and dry. Re-register your fingerprint if recognition issues persist. The sensor supports 360-degree recognition, but proper placement is still important.
- **App connection issues:** Ensure Bluetooth is enabled on your phone and the lock is within range. Restart the app or re-pair the device if necessary.
- **Mechanical key not working:** Ensure the key is fully inserted and turned correctly. Check for any obstructions in the keyhole.
- **Lock beeps continuously:** This may indicate a low battery warning or a tampering attempt. Check the app for specific alerts or replace batteries.

7. SPECIFICATIONS

Feature	Specification
Model	K1S 30 50
Brand	HAvern
Unlock Methods	Fingerprint, App (Tuya Smart), Mechanical Key, Card
Fingerprint Recognition	Semiconductor, 360-degree, 0.3s Quick Recognition
User Capacity	Up to 100 users (fingerprints/cards)
Cylinder Length	Adjustable, typically 60-110mm (K1S 30 50 variant is 30mm + 50mm = 80mm)
Connectivity	BLE Mesh (Bluetooth Low Energy)
Item Weight	0.035 ounces (approx. 1 gram)

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the HAvern customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.