Data Bulletin

XB5S Harmony™ Biometric Switch:
Simplicity in One Touch

Retain for future use.

Contents

Introduction 1
Setup 2
Registering an Administrator 2
Adding an Operator 3
Adding an Administrator. 4
Operator Access 5
Partial Deletion. 5
Total Reset. 7
Tips and Troubleshooting 9

Introduction

This data bulletin provides step-by-step instructions on how to set up the Harmony™ biometric switch. For more detailed information, consult instruction sheet BBV1789601.

Terminology

Administrator: a person who can manage the biometric switch but cannot operate the device

Operator: a person who can operate the biometric switch but cannot manage the device

Overview

Figure 1: XB5S Biometric Switch

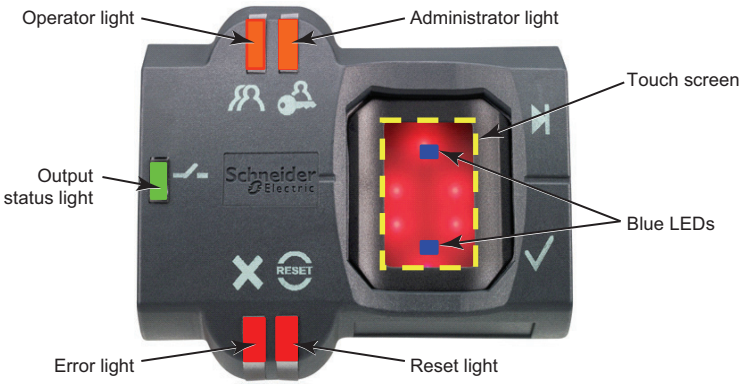
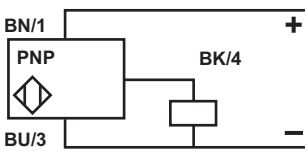


Figure 2: Wiring Diagram

PNP



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Setup

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Disconnect all power before installing or servicing this equipment.

Failure to follow these instructions will result in death or serious injury.

Startup Mode

Turn on the power for the biometric switch.

If no administrator is recorded:

- The fingerprint screen turns red.
- The two blue LEDs and the Administrator light flash.

IMPORTANT

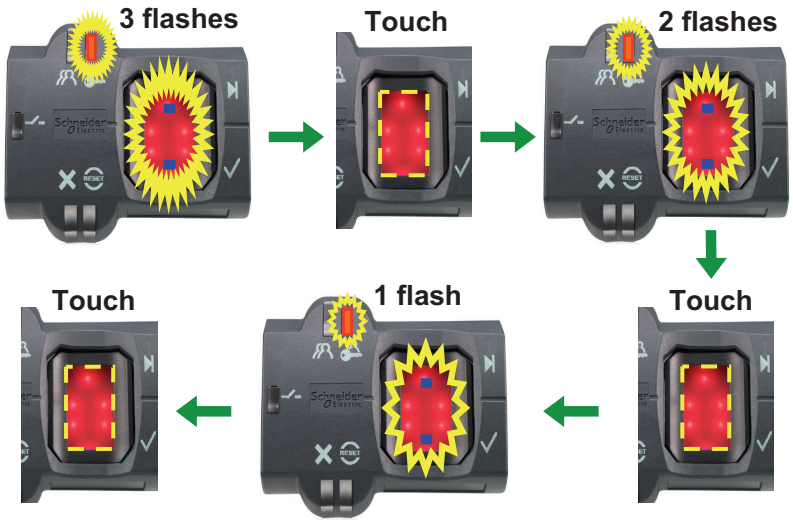
Upon powerup, you **must** register an administrator before doing anything else.
The *first person programmed* will become an administrator!

Registering an Administrator

During the procedure to register an administrator, the Administrator light and the two blue LEDs continue to flash.

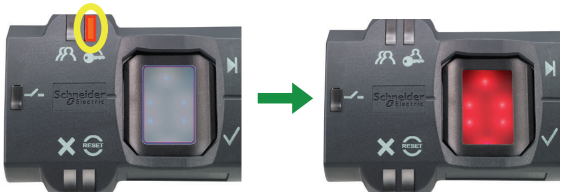
To register as an administrator, touch the fingerprint screen at least three times, as follows:

1. Touch the screen for 1–2 seconds.
2. Lift the finger for 1–2 seconds.
3. Repeat this procedure at least two more times.



If the procedure is successful, the Administrator light turns solid orange, and the screen turns blue for 1 second. Then, all indicator lights turn off, and the switch enters standby mode.

NOTE: If the procedure is unsuccessful, repeat the procedure. If you get lost during a setup procedure, wait 30 seconds, then start over. No action for 30 seconds returns the switch to standby mode.



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Adding an Operator

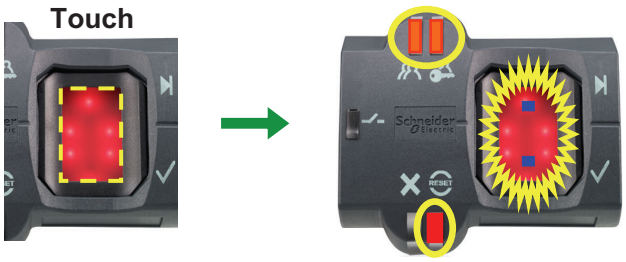
Only an administrator can add an operator or another administrator.

IMPORTANT

An administrator can register as an operator by using a different finger than the one used to register as an administrator. If the same finger is used, the administrator record will be wiped out!

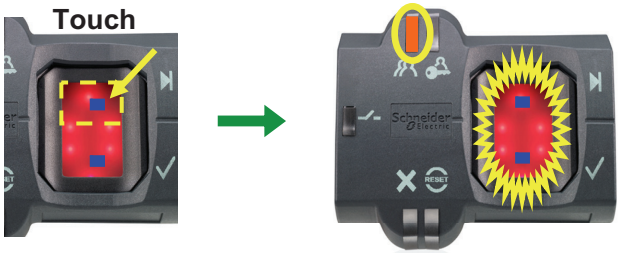
1. **Administrator**: Touch the screen to open the session.

   Three lights turn on as shown, and the two blue LEDs flash.



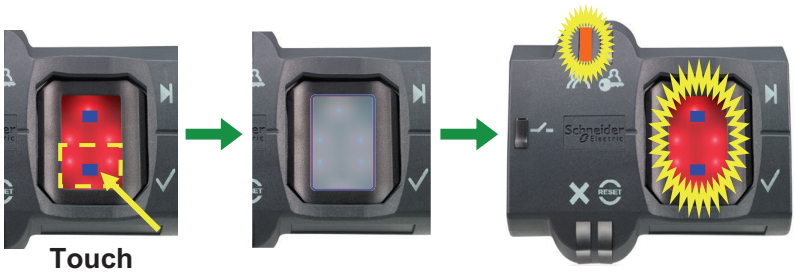
2. **Administrator**: To begin the Add Operator option, touch the top half of the screen.

   The Operator light turns solid orange, and the blue LEDs continue to flash.



3. **Administrator**: Touch the bottom half of the screen to confirm the Add Operator option.

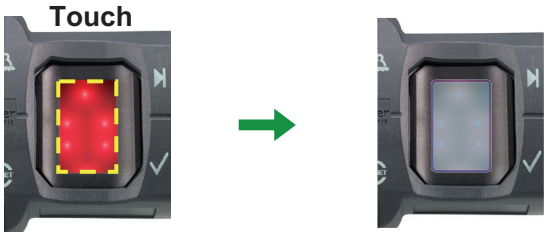
   The screen turns blue for 1 second. Then, the two blue LEDs and the Operator light flash.



4. **Operator**: To register, touch the fingerprint screen at least three times, as follows:

   a. Touch the screen for 1–2 seconds.
   b. Lift the finger for 1–2 seconds.
   c. Repeat this procedure at least two more times.

   The screen turns blue for 1 second.



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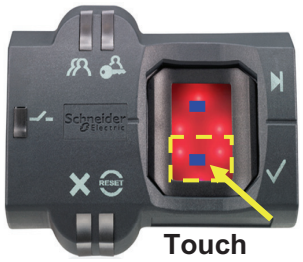
5. **Administrator**: Touch the bottom half of the screen to accept the operator registration.

   The screen turns solid red.

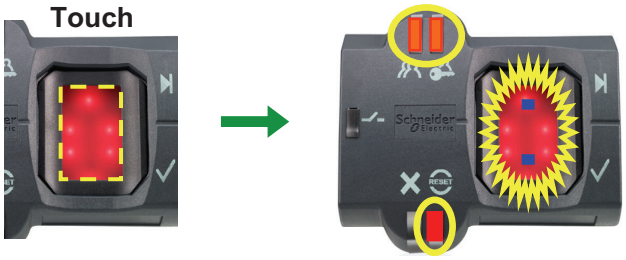


Adding an Administrator

Only an administrator can add another administrator.

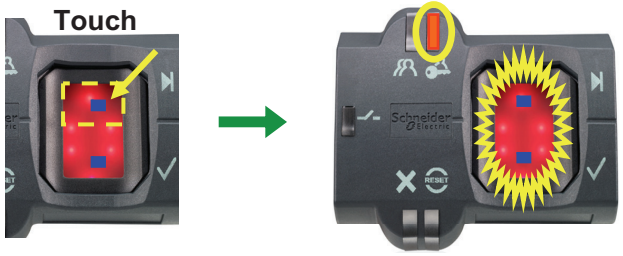
1. **Administrator**: Touch the screen to open the session.

   Three lights turn on as shown, and the two blue LEDs flash.



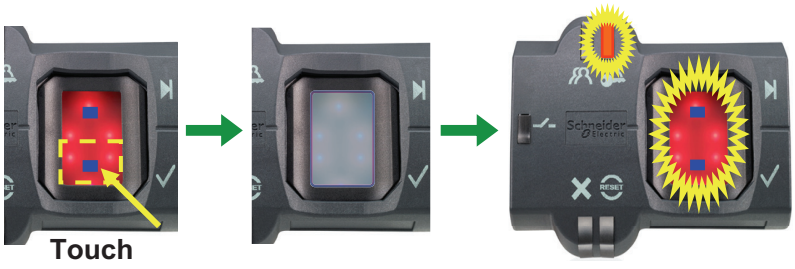
2. **Administrator**: To begin the Add Administrator option, touch the top half of the screen twice.

   The Administrator light turns solid orange, and the blue LEDs continue to flash.



3. **Administrator**: Touch the bottom half of the screen to confirm the Add Operator option.

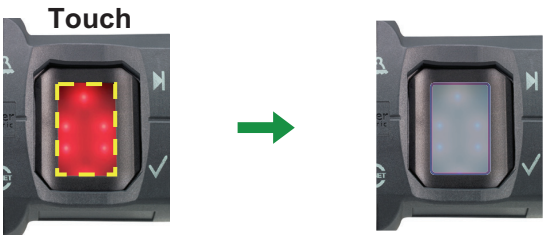
   The screen turns blue for 1 second. Then, the two blue LEDs and the Operator light flash.



4. **New Administrator**: To register, touch the fingerprint screen at least three times, as follows:

   a. Touch the screen for 1–2 seconds.
   b. Lift the finger for 1–2 seconds.
   c. Repeat this procedure at least two more times.

   The screen turns blue for 1 second.



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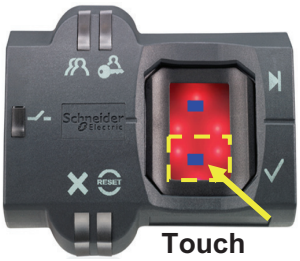
5. **Administrator**: Touch the bottom half of the screen to accept the operator registration.

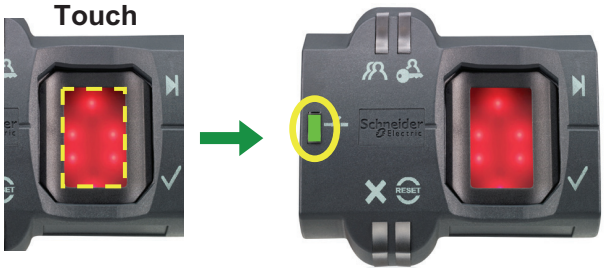
   The screen turns solid red.



Operator Access

To operate the device, touch the screen with the finger you used to register as an operator.

The output status light turns green.

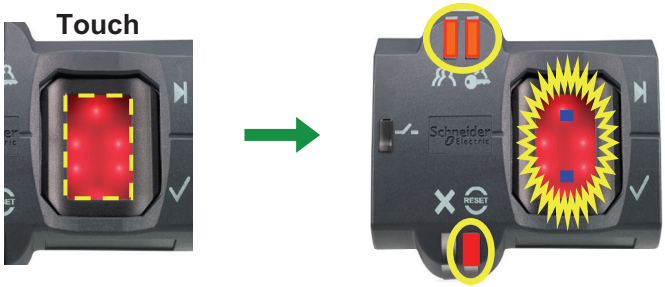


Partial Deletion

The partial deletion procedure removes an operator or administrator from memory. Only an administrator can perform a deletion procedure.

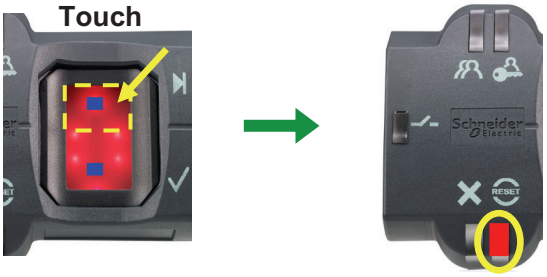
1. **Administrator**: Touch the screen to open the session.

   Three lights turn on as shown, and the two blue LEDs flash.



2. **Administrator**: Touch the top half of the screen three times to select the Reset option.

   The Reset light turns red.



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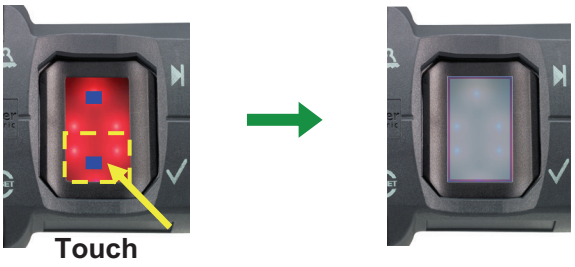
3. **Administrator**: Touch the bottom half of the screen to confirm deletion.

   The screen turns blue for 1 second. The top two lights turn solid orange and the Reset light flashes.



4. **Administrator**: Select the deletion operation:

   For *operator* deletion:

   a. Touch the top half of the screen once.

      The Operator light and Reset light turn solid on.

   b. Touch the bottom half of the screen once to confirm operator deletion.

      The screen turns blue for 1 second. Then, the Operator light flashes and the Reset light turns solid on.

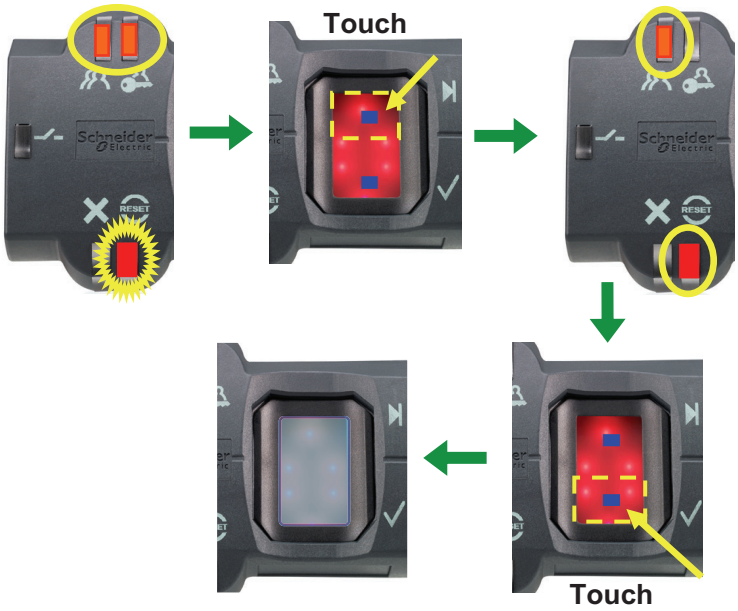
   For *administrator* deletion:

   a. Touch the top half of the screen twice.

      The Administrator light and Reset light turn solid on.

   b. Touch the bottom half of the screen twice to confirm administrator deletion.

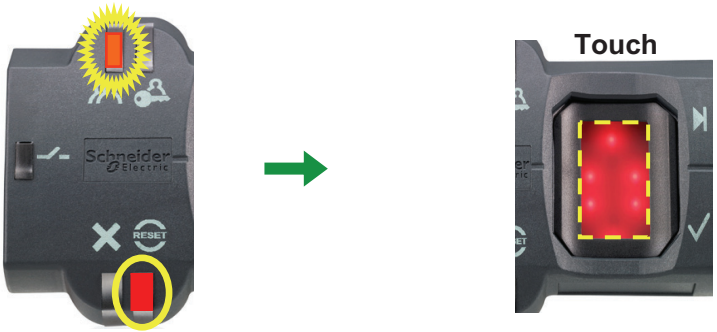
      The screen turns blue for 1 second. Then, the Administrator light flashes and the Reset light turns solid on.



5. **User being deleted**: Touch the fingerprint screen at least three times, as follows:

   a. Touch the screen for 1–2 seconds.
   b. Lift the finger for 1–2 seconds.
   c. Repeat this procedure at least two more times.

   The top two lights turn solid on. The Reset light and two blue LEDs flash.



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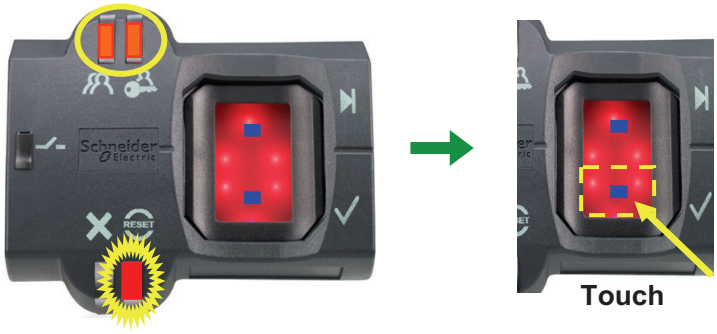
6. **Administrator**: Touch the bottom half of the screen.

   The screen turns solid red.

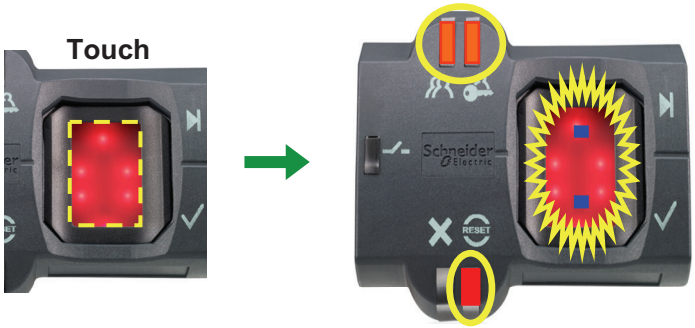


Total Reset

The total reset procedure removes all administrators and operators from memory. Only an administrator can reset the switch.

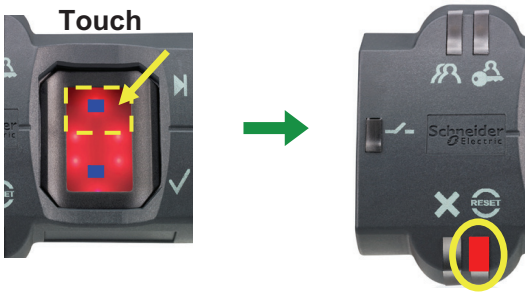
1. **Administrator**: Touch the screen to open the session.

   Three lights turn on as shown, and the two blue LEDs flash.



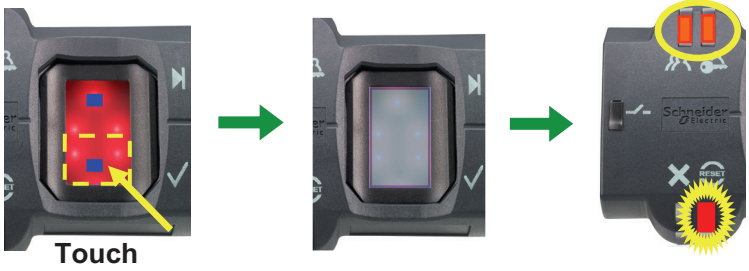
2. **Administrator**: Touch the top half of the screen three times to select Reset.

   The Reset light turns red.



3. Touch the bottom half of the screen to confirm deletion.

   The screen turns blue for 1 second. Then, the top two lights turn solid orange and the Reset light flashes.



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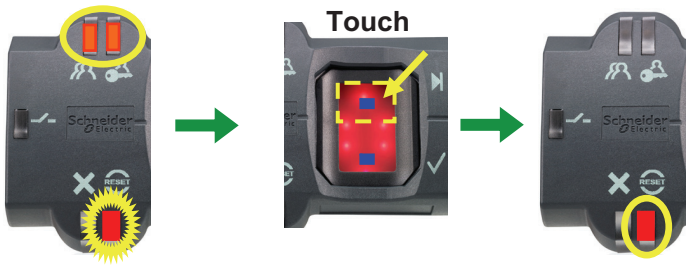
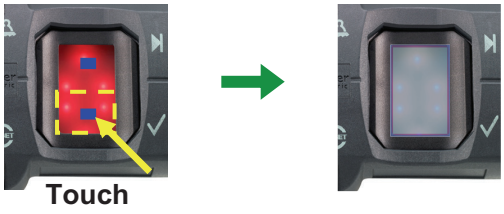
4. Touch the top half of the screen 3 times to select total reset.

   The Reset light turns solid red.

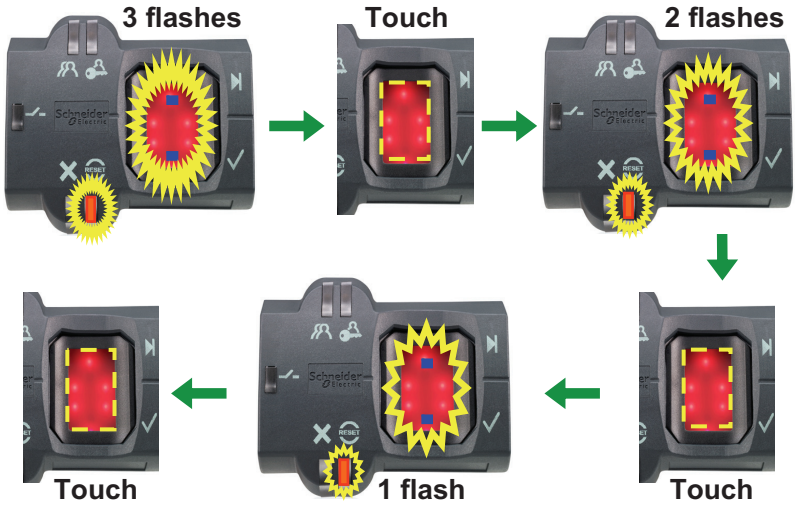


5. Touch the bottom half of the screen once to confirm reset

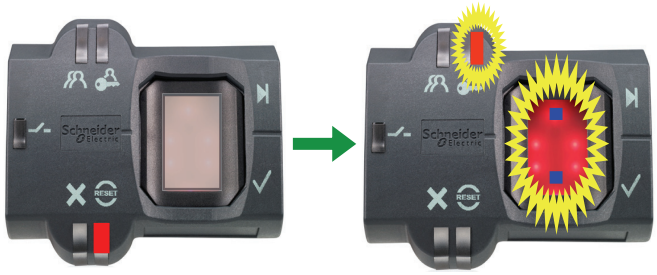
   The screen turns blue for 1 second. Then, the Reset light and screen flash in three pulse intervals.



6. To execute the total reset, touch the screen at least three times as follows:
   a. Touch the screen for 1–2 seconds.
   b. Lift the finger for 1–2 seconds.
   c. Repeat this procedure at least two more times.



The total reset is now complete. The screen goes blank, then returns to Startup mode as described on page 2.



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Tips and Troubleshooting

- The switch must always have at least one administrator. The switch does not allow deletion of the only administrator except by total reset.
- For an administrator to become an operator, the administrator must register as an operator using a different finger.
- Record two fingers for each user (right hand / left hand) in case injury or other circumstance prevents the user from always using the same finger.
- No action for 30 seconds returns the switch to standby mode. If you get lost during a setup procedure, wait 30 seconds, then start over.
- If the screen does not read your touch reliably:
  - — Clean the touch screen with the dry cloth provided with the switch. Never use solvents on the screen.
  - — If the difficulty persists, try recording the finger again. The same finger can be recorded several times, and the best record will be selected.
- Remember that one person can *open* an operation, and another person can *close* that operation.
- If you are registered as an operator *and* as an administrator, and you activate the switch with the wrong finger, wait 30 seconds or touch the bottom of the screen to return to standby mode.
- Perform a total reset before transferring ownership of the switch!
- If the only administrator is no longer available, contact the Schneider Electric Customer Information Center (CIC) for instructions on performing a total reset of the memory.

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