

# SECUSTOS SQ80 SERIES

Multi-frequency access control readers

## USER MANUAL



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# 1 INTRODUCTION

## 1.1 ABOUT THIS MANUAL

This manual is intended for users and installers. It enables a safe and appropriate handling of the product and it gives a general overview, as well as important technical data and safety information about the product. Before installing and using the product, the users and installers should read and understand the content of this manual.

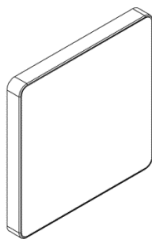
For the sake of better understanding and readability, this manual might contain exemplary pictures, drawings and other illustrations. Depending on your product configuration, these pictures might differ from the actual design of your product.

The original version of this manual has been written in English. Wherever the manual is available in another language, it is considered as a translation of the original document for information purposes only. In case of discrepancy, the original version in English will prevail.

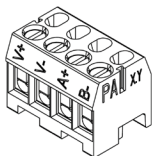
## 1.2 SCOPE OF DELIVERY

### 1.2.1 COMPONENTS

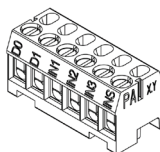
Your SECUSTOS SQ80 access control reader is delivered as a kit with the following components:



**SECUSTOS SQ80**  
reader



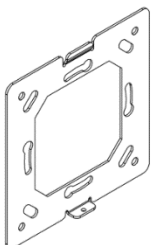
**4-pin connector (X1)**



**6-pin connector (X2)**

All SECUSTOS SQ80 readers are equipped ex-works with one 4-pin (X1) and one 6-pin (X2) connector.

Depending on the product configuration, access control readers of the SECUSTOS SQ80 series are available with or without keypad, in a silver or gray housing.



**Mounting plate**

The mounting plate delivered with the kit enables to fix the SECUSTOS SQ80 reader on a wall. It must be fixed directly to the wall or on a flush-mounted box with 2 to 4 screws\*

\*Not part of the delivery (screws are generally available on site)



Fixing screw  
(countersunk screw with  
cross recess, M2x5)

The fixing screw delivered with the kit is intended to fix the SECUSTOS SQ80 reader on the mounting plate.

Due to its small size and inconspicuousness, particular attention should be given to the screw when unpacking the kit, as the screw might easily fall down from the support and get lost.



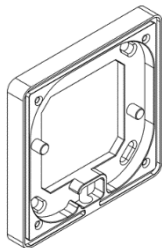
Installation guide  
(exemplary illustration)

The installation guide delivered with the product gives a short description of the installation options.

Please note that the installation guide does **not** replace the user manual!

## 1.2.2 ACCESSORIES

Depending on your product configuration, the product can be delivered with the following accessories:



Mounting frame\*

Additional frame required for on-wall installation.

The mounting frame is delivered with 4 fixing screws (ISO 7046-1 stainless steel A2 M3x6) and 2 rubber seals on each side of the frame.

Part no.:

T4SA-QWF1SL (mounting frame, silver)

T4SA-QWF1GY (mounting frame, gray)

T4SX-MECH 003 (fixing screws)



USB maintenance and  
configuration cable

sesamsec product-specific USB cable intended for maintenance and configuration purposes only.

Particular attention should be given when plugging the USB cable in and out of the SECUSTOS SQ80 reader.

Part no.: CAB-J4MSBAMSB150

\* In order to comply with the UL certification requirements, the mounting frame **must** always be used when installing the reader outside. Any failure to meet this requirement will void the UL certification of the product.

## 1.3 SESAMSEC SUPPORT

In case of any technical questions, refer to the sesamsec website ([www.sesamsec.com](http://www.sesamsec.com)) or contact sesamsec technical support at

**support@sesamsec.com**

In case of questions regarding your product order, contact your Sales representative or sesamsec customer service at

**info@sesamsec.com**

## 2 INTENDED USE

SECUSTOS SQ80 is a product family of access control readers based on RFID technology. The readers give the user the possibility to read simultaneously more than 60 RFID technologies from low (125 kHz) and high (13.56 MHz) frequency bands. Many mobile use cases can be facilitated with their NFC and, optionally, BLE functions, like authentication and data communication.

All readers are for both indoor and outdoor use in environmental conditions according to the respective product data sheets and installation instructions given in this manual.

**Any use other than the intended use described in this section, as well as any failure to comply with the safety information given in this document, is considered improper use. sesamsec excludes any liability in case of improper use or faulty product installation.**

## 3 SAFETY INFORMATION

### Transport and storage

- Observe carefully the transport and storage conditions described on the product packaging or other relevant product documents (e.g. data sheet).

### Unpacking and installation

- Before unpacking and installing the product, this user manual and all relevant installation instructions must be read carefully and understood.
- After unpacking the product, check that all components have been delivered according to your order and delivery note.  
Contact sesamsec if your kit is not complete.
- The following measures must be checked prior to any product installation:
  - Make sure that the mounting location and tools used for the installation are appropriate and safe. In addition, make sure that the cables intended to be used for the installation are appropriate. Refer to Chapter “Installation” for more information.
  - In case the product is installed outside, check if any further installation steps are required (e.g. sealing of cables or housing). Refer to Chapter “Installation” for more information.
  - The product is an electrical device made of sensitive materials (e.g. glass housing). Check all product components and accessories for any damage.  
A damaged product or component may not be used for the installation.
  - **Life-threatening hazard in the event of fire**  
A faulty or improper installation of the product might cause a fire and lead to death or severe injuries.  
Check that the mounting location is equipped with appropriate safety installations and devices, like a smoke alarm or fire extinguisher.
  - **Life-threatening hazard due to electrical shock**  
Make sure that there is no voltage on the wires before starting with the electrical wiring of the product and check that power is turned off by testing the power supply of each wire.  
Power to the reader supply should be applied only after the installation has been completed.
  - Make sure that the product is installed in accordance with local electrical standards and regulations and observe general safety measures.
  - Risk of property damage due to transient overvoltages (surges)  
Transient overvoltages imply short-duration voltage peaks that might result in system breakdown or significant damages of electrical installations and devices.  
sesamsec recommends the installation of appropriate Surge Protection Devices (SPD) by a qualified and authorized personnel.
  - sesamsec also recommends the installers to follow general ESD protective measures during the installation of the product.

Please also refer to the safety information in Chapter “Installation”.

- The product might show sharp edges or corners and requires a particular attention during the unpacking and installation.  
**Unpack the product carefully and do not touch any sharp edges or corners, or any sensitive components on the product. If necessary, wear safety gloves.**

- In order to comply with the applicable RF exposure requirements, the product should be installed and operated with a minimum distance to any user's/nearby person's body at all times. Refer to Chapter "Compliance statements" for further information about RF exposure compliance.
- In case the product is equipped with a cable, do not twist or pull the cable.
- In case of an on-wall or in-wall installation, the product must be installed in conformity with applicable local regulations.  
**Observe the minimum installation height and other regulations applicable in the region in which the product is installed.**
- The product is an electronic product whose installation requires specific skills and expertise.  
**The installation of the product should be done by a trained and qualified personnel only.**

## Handling

- Depending on your product configuration, the product might be equipped with one or more light-emitting diodes (LED).  
**Avoid direct eye contact with the blinking or steady light of the light-emitting diodes.**
- The product has been designed for a use under specific conditions, e.g. in a specific temperature range (refer to the product data sheet).  
Any use of the product under different conditions might damage the product or alter its reading performance.
- The use of other RFID readers or reader modules in direct vicinity to the product, or in combination with the product might damage the product or alter its reading performance. In case of doubts, contact sesamsec for more information.
- The user is liable for the use of spare parts or accessories other than the ones sold or recommended by sesamsec.  
sesamsec excludes any liability for damages or injuries resulting from the use of spare parts or accessories other than the ones sold or recommended by sesamsec.
- In case the product is equipped with a cable, the cable may not be replaced or extended.  
sesamsec excludes any liability for damages or injuries resulting from a use of the product with a cable extension or a replaced cable.
- Like most electronic devices, RFID systems generate electromagnetic waves that can vary in amplitude and frequency. It is generally known and accepted that some RFID devices might potentially interfere with personal medical devices, like pacemakers or hearing aids.  
**The access control readers of the SECUSTOS SQ80 series fulfill general radio and EMC requirements. However, users with a pacemaker or any other medical device should use the SECUSTOS SQ80 readers carefully and refer to the information given by the manufacturer of their medical devices before using the readers.**

## Maintenance and cleaning

- Any repair or maintenance work should be done by a trained and qualified personnel only.  
**Do not allow any repair or maintenance work on the product by an unqualified or unauthorized third party.**
- **Life-threatening hazard due to electrical shock**  
Before any repair or maintenance work, turn the power off.

- Check the installation and electrical connection of the product in regular intervals for any signs of damage or wear. Should any damage or wear be noticed, contact sesamsec or a trained and qualified personnel for repair or maintenance work.
- The product does not need any special cleaning. However, the housing may be carefully cleaned up with a soft, dry cloth and a non-aggressive or non-halogenated cleaning agent on the outer surface only.  
**Make sure that the used cloth and cleaning agent do not damage the product or its components (e.g. label(s)).**

### **Disposal**

- The product must be disposed of in accordance to the applicable local regulations.

### **Product modifications**

- The product has been designed, manufactured and certified as defined by sesamsec.  
**Any product modification without prior written approval from sesamsec is prohibited and considered improper use of the product. Unauthorized product modifications may also result in the loss of product certifications.**







If you are unsure about any part of the safety information above, contact sesamsec support.

**Any failure to comply with the safety information given in this document is considered improper use. sesamsec excludes any liability in case of improper use or faulty product installation.**



## 4 TECHNICAL DATA

### 4.1 TECHNICAL SPECIFICATIONS

						
	SECUSTOS SQ80	SECUSTOS SQ80 K	SECUSTOS SQ80 K LEGIC	SECUSTOS SQ80 K LF HF	SECUSTOS SQ80 LEGIC	SECUSTOS SQ80 LF HF
LF transponders	•	•	•	•	•	•
HF transponders	•	•	•	•	•	•
NFC	•	•	•	•	•	•
BLE	•	•	•		•	
Keypad		•	•	•		
Dimensions (L x W x H)	Reader frame only (mounted): approx. 86.00 x 86.00 x 8.25 mm / 3.38 x 3.38 x 0.33 inch Rear connector height: approx. 8.00 mm / 0.31 inch Reader with rear connector: approx. 86.00 x 86.00 x 15.9 mm / 3.38 x 3.38 x 0.62 inch Optional mounting frame: approx. 86.00 x 86.00 x 9.75 mm / 3.38 x 3.38 x 0.38 inch					
Weight	Reader, potted, with connectors and mounting plate: approx. 113 g / 3.99 oz					
Power	6.0 V - 28 V via connector X1 PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A					
Current consumption	Max. 300 mA @ 6.0 V					
Temperature range	Operating: -20 °C up to +60 °C (-4 °F up to +140 °F) Storage: -20 °C up to +70 °C (-4 °F up to +158 °F)					
Relative Humidity	Mounted front: IP65 protected housing Transport/Storage: 5% to 95% non-condensing					

### 4.2 FIRMWARE

Your product is delivered ex-works with a specific firmware version. Refer to the label attached to the product to find the firmware version installed ex-works.

**A/B1.50/NCD4.70/STD2.02/B/BT1.07EL**  
(exemplary firmware)

### 4.3 ANTENNAS

The readers contain an RFID module equipped with the following antennas:

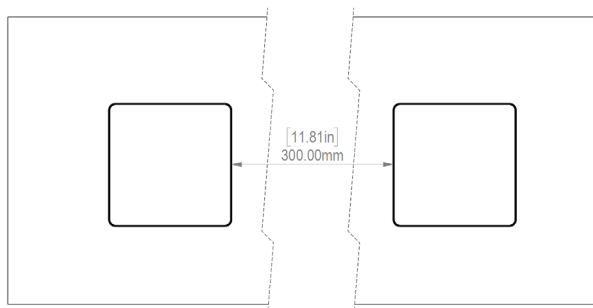
	HF antenna (13.56 MHz)	LF antenna (125 kHz)	BLE (2.4 GHz)*
SECUSTOS SQ80			Integrated BLE module
SECUSTOS SQ80 K			Integrated BLE module
SECUSTOS SQ80 K LEGIC	Dimensions: approx. 42.00 x 25.00 mm (1.65 x 0.98 inch)	Outer diameter: max. 16.30 mm (0.64 inch)	Integrated BLE module
SECUSTOS SQ80 K LF HF	Number of turns: 4	Number of turns: 144	n/a
SECUSTOS SQ80 LEGIC			Integrated BLE module
SECUSTOS SQ80 LF HF			n/a

# 5 INSTALLATION

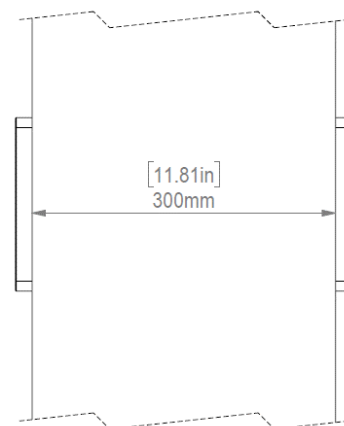
## 5.1 GETTING STARTED

Before starting with the installation of a SECUSTOS reader, the following measures must be checked:

- Make sure you have read and understood all safety information given in Chapter “Safety information”.
- Make sure that there is no voltage on the wires and check that power is turned off by testing the power supply of each wire.
- Make sure that all tools and components required for the installation are available and appropriate.
- Make sure that the installation site is appropriate for the installation of the reader. In particular, check that the temperature of the installation site is within the operating temperature range given in the SECUSTOS technical documentation and make sure that the wall used for the installation is appropriate. In some cases, the wall material might not be suitable for a safe and durable installation, or it might require specific mounting screws (e.g. wall made out of silicon or drywall). Furthermore, some materials might interfere with the RFID antennas of the reader and reduce its reading performance (e.g. metallic surfaces). Contact sesamsec for more information.
- The recommended installation height for a standard installation is 110 cm from the ground. However, in some cases (e.g. wheelchair access, local regulations, etc.), the actual installation height on site might differ from the recommended height. Please also note the maximum wall mounting height of 200 cm from the ground.
- In case of power lines, make sure that the minimum distance between the connection cable of the reader and the next power line is 10 cm.
- In case other RFID devices are already installed on site, or if several SECUSTOS readers must be installed on the same site, observe a minimum distance of 30 cm between all readers and devices in order to achieve the best reading performance for each reader. Should two readers be installed in the same location (e.g. on each side of a wall, next to a door), the wall thickness should also be at least 30 cm to prevent a loss of performance of both readers.



Example 1:  
installation of 2 readers next to each other



Example 2:  
installation of 2 readers on each side of a wall (i.e. inside/outside)

- When installing the reader, do not cover the top left corner of the RFID module (i.e. top right corner when the reader is fixed on the wall), as it would disable both proximity and ambient light sensors.

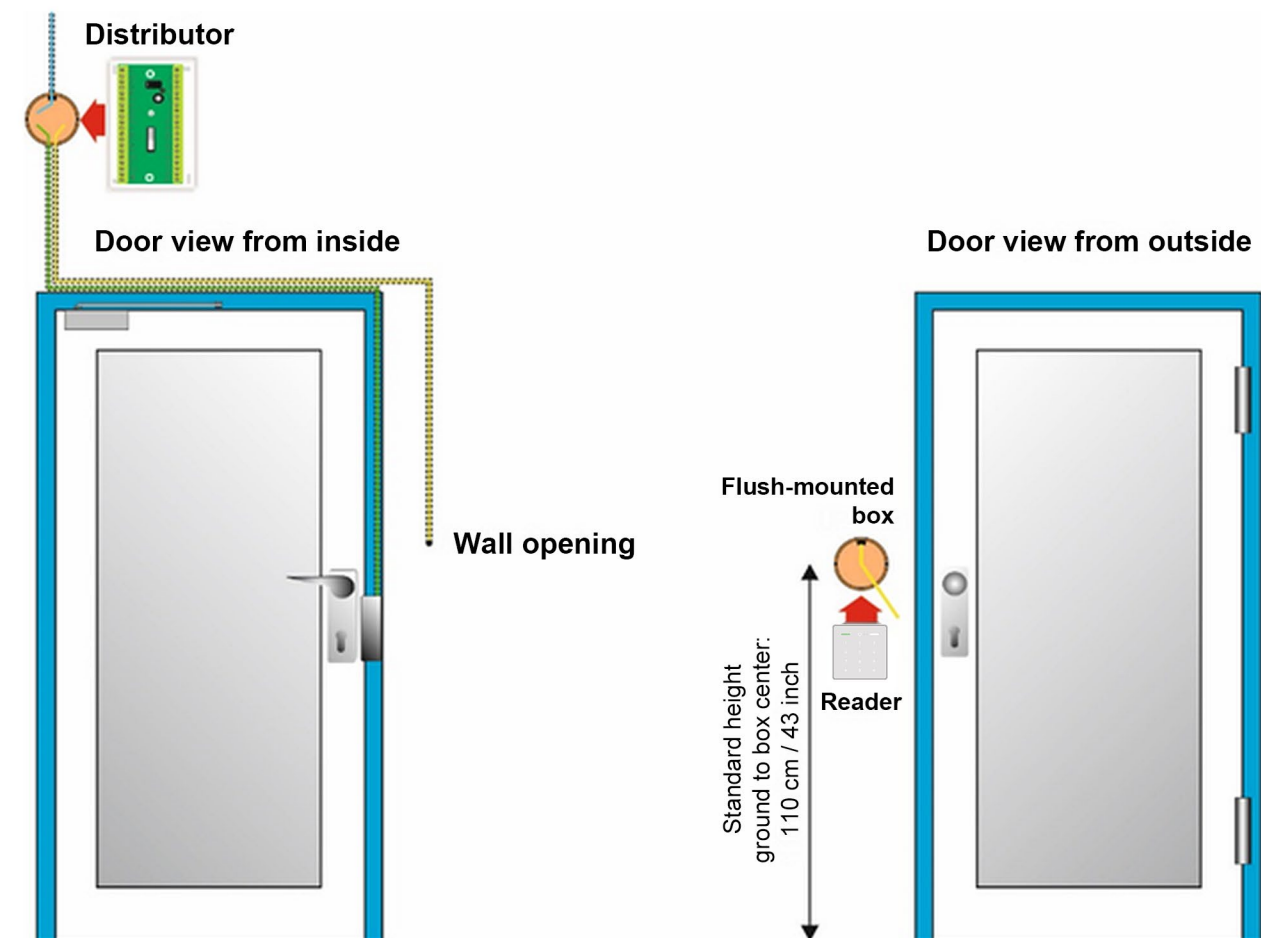


proximity and ambient light sensors (blue frame)  
front view

- The protective film on the housing front should only be removed after complete installation of the reader.

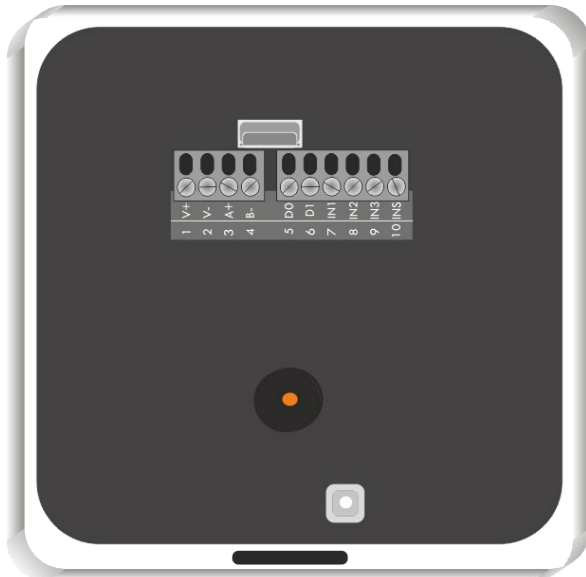
## 5.2 INSTALLATION OVERVIEW

The illustration below gives an overview on an exemplary installation of a SECUSTOS SQ80 access control reader:



## 5.3 ELECTRICAL CONNECTION

### 5.3.1 CONNECTOR ASSIGNMENT



Drawing – RFID module contained in SECUSTOS SQ80 readers

#### Power supply

V+	Input voltage 6 – 28 V
V-	Ground

#### Data transfer

A+	RS-485, cable length: max. 1000 m
B-	RS-485, cable length: max. 1000 m
D0	Wiegand D0, cable length: max 200 m*
D1	Wiegand D0, cable length: max 200 m*
IN1	Digital input 1, cable length: max 200 m*
IN2	Digital input 2, cable length: max 200 m*
IN3	Digital input 3, cable length: max 200 m*
INS	Digital input S (for external Sabotage switch), optional if sabotage button is not available on the reader, cable length: max 200 m*

\* Cable routing requirements: twisted pair cabling (D0/GND, D1/GND).

#### Maintenance / Configuration

USB	4-pin USB connector, 1.25 mm pitch (for maintenance and configuration purposes only)
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### 5.3.2 ADDITIONAL CABLE INFORMATION

Typical installation cables are:

JY(ST)Y 4x2x0.6 for distance between devices  $\leq 25$  m  
 JY(ST)Y 4x2x0.8 for distance between devices  $> 25$  m

Alternatively, any other appropriate cables that meet the prerequisites of RS-485 installations and wirings can be used.

In case of long cables, voltage drops might lead to a breakdown of the readers. To prevent such malfunctions, it is recommended to wire the ground (V-) and input voltage (V+) with two wires each.

In addition, the installation cable used to connect the controller must contain a cable shield and/or a drain wire with PE connection.

The cable shield/drain wire may not be connected to the reader, but only to the controller. Otherwise, it could lead to a potential difference.

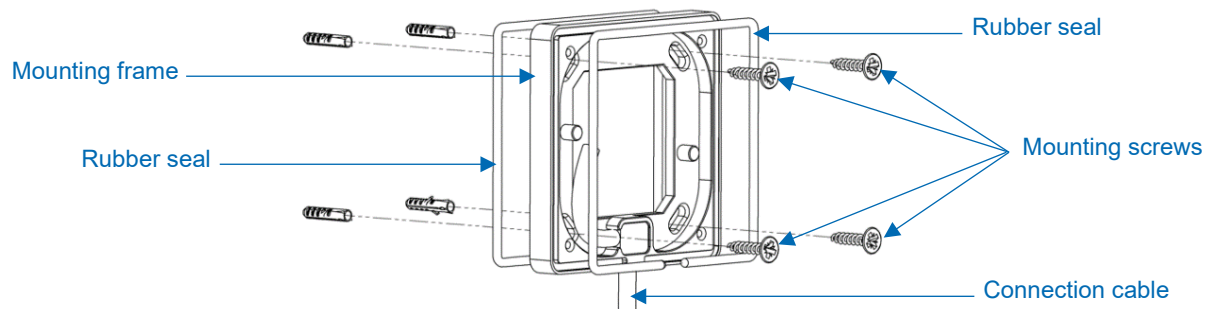
## 5.4 MECHANICAL INSTALLATION



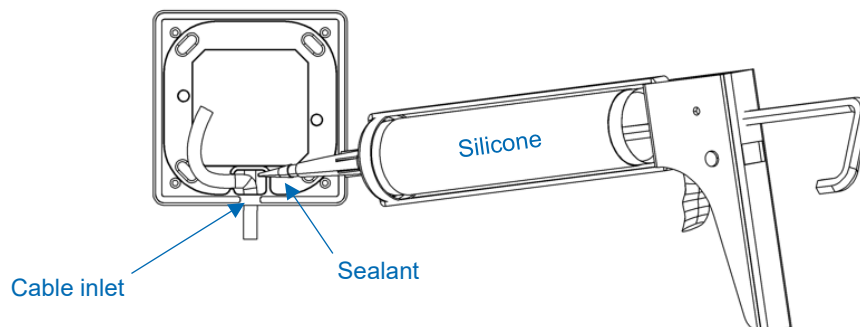
The SECUSTOS mounting frame (refer to Chapter “Accessories”) is an additional component required for on-wall installation. In order to comply with the UL certification requirements, the mounting frame **must** always be used when installing the reader outside. Any failure to meet this requirement will void the UL certification of the product.

### 5.4.1 INSTALLATION DIRECTLY ON THE WALL

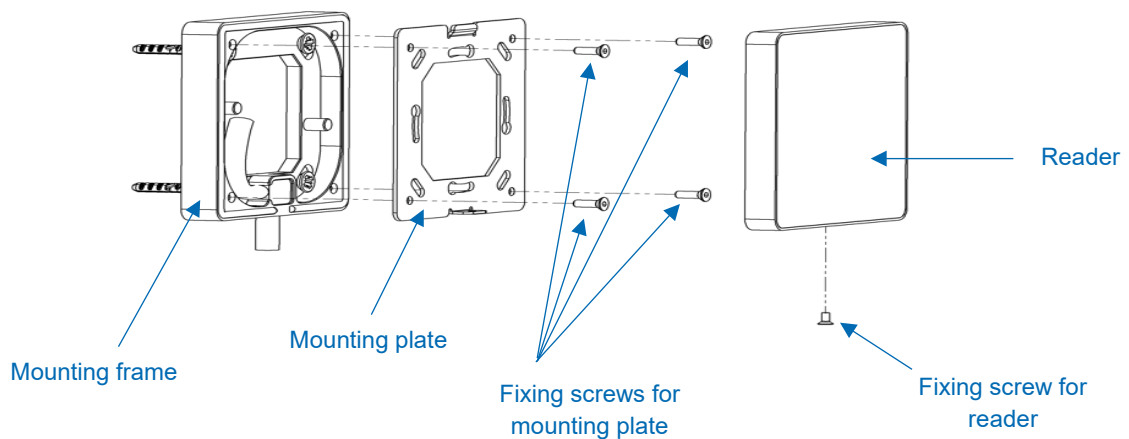
1. Fix the mounting frame to the wall as described below:



2. The mounting frame is equipped with a cable inlet on its bottom side, which also serves as a cable strain relief. Optionally, the cable inlet can be sealed with silicone.

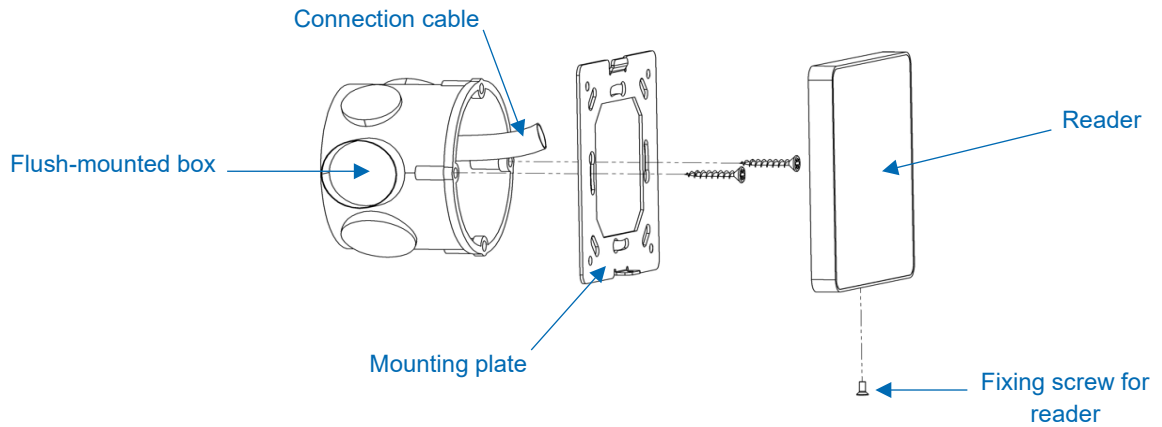


3. Finally, attach the mounting plate to the mounting frame, and the reader to the mounting plate as described below:



#### 5.4.2 INSTALLATION WIT FLUSH-MOUNTED BOX

1. Attach the mounting plate to the flush-mounted box, and the reader to the mounting plate as described below:



## 6 SETTINGS

### 6.1 GENERAL SETTINGS

By default, the reader is delivered ex-works with the following settings:

- OSDP: 9600 baud
- Address: 0
- Terminating resistors: off

A customer-specific configuration is also possible by changing the device settings with the sesamsec Seconfig tool.

### 6.2 CONFIGURATION WITH SECUSTOS SECO APP

The reader configuration with the SECUSTOS Seco app requires an NFC-enabled mobile device (e.g. smartphone or tablet) with Android operating system (from Android 4.0). Seco must be downloaded from the Google Play Store and installed on the mobile device. Once the app has been installed, it is possible to set parameters on the mobile device and transmit them subsequently on the reader via NFC.

### 6.3 CONFIGURATION WITH USB CABLE

The reader can also be configured using the sesamsec specific USB cable (refer to Chapter “Accessories”) and the sesamsec Seconfig tool.

To do so, proceed as follows:

1. Connect the reader to a PC with the USB cable.  
**Particular attention should be given when plugging the USB cable in and out of the reader, as the 4-pin USB connector is a very sensitive component.**  
**Do not twist or pull excessively on the reader and press the connector lock when plugging the cable out.**
2. Open the Seconfig tool on the PC and set the reader as requested.  
Refer to the SECUSTOS technical handbook for more information about the reader settings.
3. Save your settings before closing the Seconfig tool and disconnect the reader from the PC by plugging out the USB cable carefully.



## 6.4 CONNECTION TO AN ACCESS CONTROLLER

### 6.4.1 LINE TOPOLOGY

In this configuration, the reader bus consists of one reader connected to an RS-485 controller bus. An address must be assigned to the reader and the terminating resistors of the RS-485 bus on the reader and on the controller must also be set.

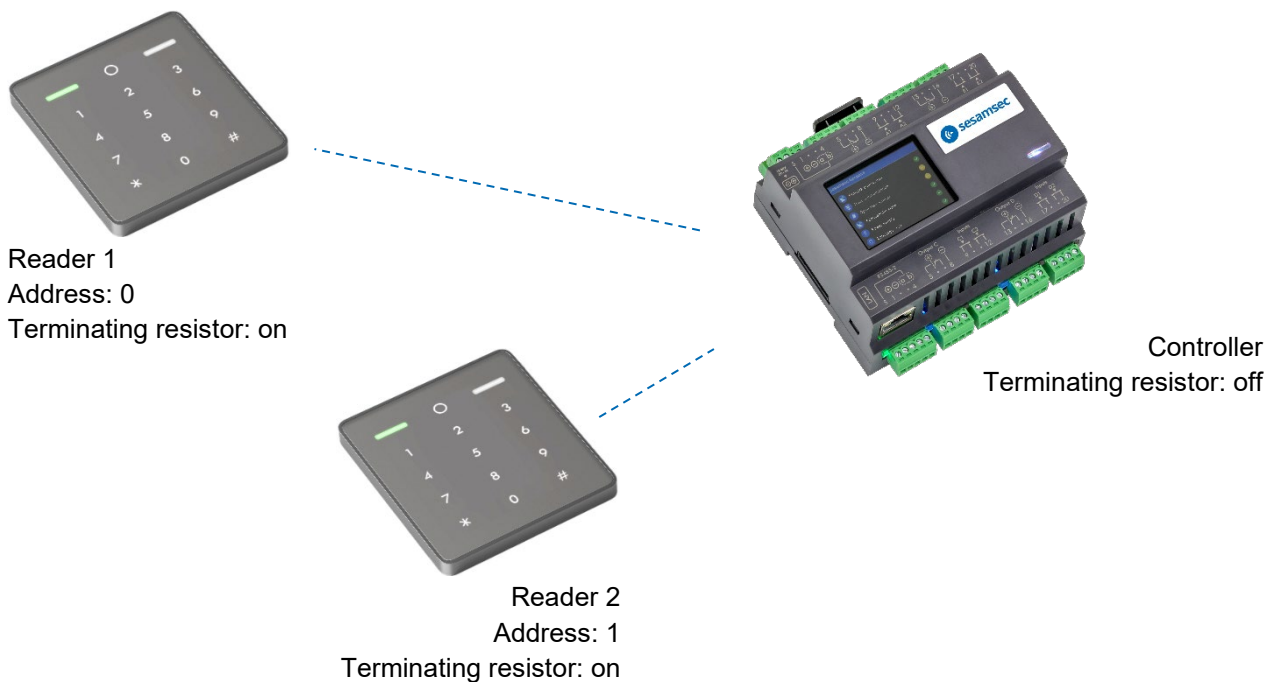


### 6.4.2 STAR TOPOLOGY

In this configuration, the reader bus consists of max. two readers, which are both connected to the same RS-485 controller bus. An address must be assigned to each reader before initial operation (e.g. Reader 1 = Address 0, Reader 2 = Address 1) as two readers with the same address would cause a conflict.

The terminating resistors of the RS-485 bus on both readers must be on, whereas the terminating resistor of the RS-485 bus on the controller must be off.

The terminating resistors of the RS-485 bus on the readers and on the controller must also be set.



**Please note:**

- A star topology is only possible with max. two readers.
- In general, the terminating resistors of the devices opening and closing the RS-485 bus must be on. The terminating resistors of all other devices within the RS-485 bus are off.
- An RS-485 bus should contain max. two readers. Operating more than two readers would lead to a performance loss.
- A correct configuration of the controller is necessary to ensure a proper function of the readers.

## 7 COMPLIANCE STATEMENTS

### 7.1 FCC

#### SECUSTOS SQ80 K LEGIC SECUSTOS SQ80 LEGIC

FCC ID	2BAACSQ80KLE
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The device above complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation. (except receivers associated with operation of a licensed radio service and stand-alone devices).

#### Caution

The Federal Communications Commission (FCC) warns the users that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### FCC §15.105 (b)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### RF exposure statement

The device above complies with FCC radiation exposure limits set forth for an uncontrolled environment under the following conditions: This equipment should be installed and operated such that a minimum separation distance of 20 cm is maintained between the antenna and user's/nearby person's body at all times.

### 7.2 ISED CANADA

#### SECUSTOS SQ80 K LEGIC SECUSTOS SQ80 LEGIC

IC	30098-SQ80KLE
----	---------------

The device above contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:  
1. This device may not cause interference.  
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**RF exposure statement / Déclaration de conformité aux limites d'exposition humaine aux radiofréquences**

The device above complies with ISED radiation exposure limits set forth for an uncontrolled environment under the following conditions: This equipment should be installed and operated such that a minimum separation distance of 20 cm is maintained between the antenna and user's/nearby person's body at all times.

L'appareil ci-dessus est conforme aux limites d'exposition humaine aux radiofréquences d'Innovation, Sciences et Développement économique Canada établies pour un environnement non contrôlé, dès lors que les conditions suivantes sont respectées: Le présent appareil doit être installé et utilisé à une distance minimale de 20 cm de toute personne.

# APPENDIX

## A – RELEVANT DOCUMENTATION

### sesamsec documentation

- Installation guide SECUSTOS SQ80 product series
- SECUSTOS SQ80 data sheet
- SECUSTOS SQ80 K data sheet
- SECUSTOS SQ80 K LEGIC data sheet
- SECUSTOS SQ80 K LF HF data sheet
- SECUSTOS SQ80 LEGIC data sheet
- SECUSTOS SQ80 LF HF data sheet
- Sesamsec product catalog for access control (*sesamsec Produktkatalog Zutrittskontrolle*)

### external documentation

- Technical documentation related to installation site
- Optionally: Technical documentation related to host product

## B – TERMS AND ABBREVIATIONS

TERM	EXPLANATION
BLE	Bluetooth Low Energy
ESD	Electrostatic discharge
FCC	Federal Communications Commission (federal commission of the United States of America that regulates communications through cable, radio, television, satellite and wire)
HF	High frequency
ISED	Innovation, Science and Economic Development (federal institution in charge of the regulation of radiocommunications in Canada)
LED	Light-emitting diode
LF	Low frequency
NFC	Near-field communication
PE	Protective Earth
RF	Radio frequency
RFID	Radio frequency identification
SPD	Surge Protection Device
WEEE	Waste of electrical and electronic equipment. Refers to Directive 2012/19/EU of the European Parliament and of the Council of the European Union

## C – REVISION HISTORY

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