



INSTALLATION **GUIDE**

3.11.16

INSTALLATION GUIDE

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This guide will walk you through the installation of the SENSEON system. This includes:

- Reader Installation
- Hub Installation
- Power Supply Installation
- Cable Installation Connections
- Cable Routing and Connections
- E-Lock Cable Connections

Plan your design ahead of time with the Senseon Design Guide.

Any questions that may arise during installation are addressed in the Senseon FAQs.

Both of these items can be found at accuride.com/en-us/markets-innovation/secure-access-control-systems.

SECTION 1: **READER INSTALLATION**

SECTION 1 READER INSTALLATION

1.1 - Subsurface Mounting

 Mounting the Proximity Reader under a surface should be tested on the material prior to design, fabrication or installation. Material composition such as wood or stone may impact the Proximity reader signal distance and may require less than 1 inch of material thickness.

 The Proximity readers cannot be mounted directly under any type of metal surface. The metal surface will block the reader's radio frequency signal. If your cabinet has a metal surface the installation must be surface mounting.

1.1.1 - Vertical Orientation

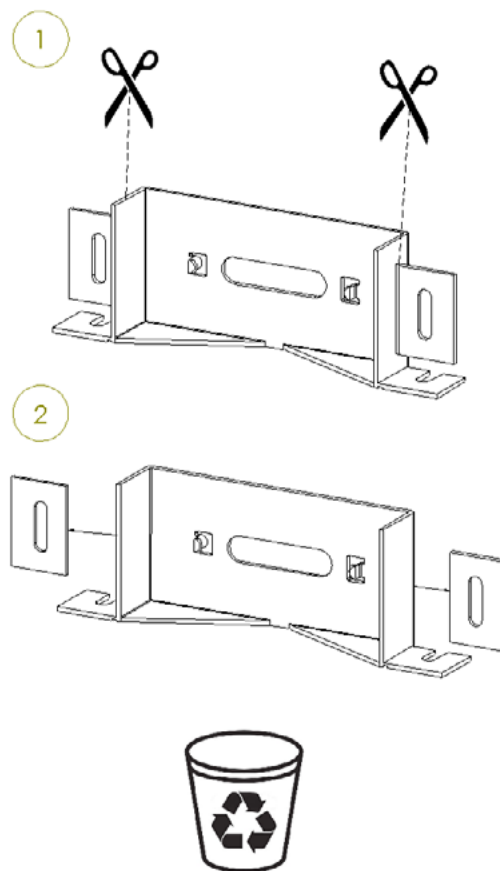
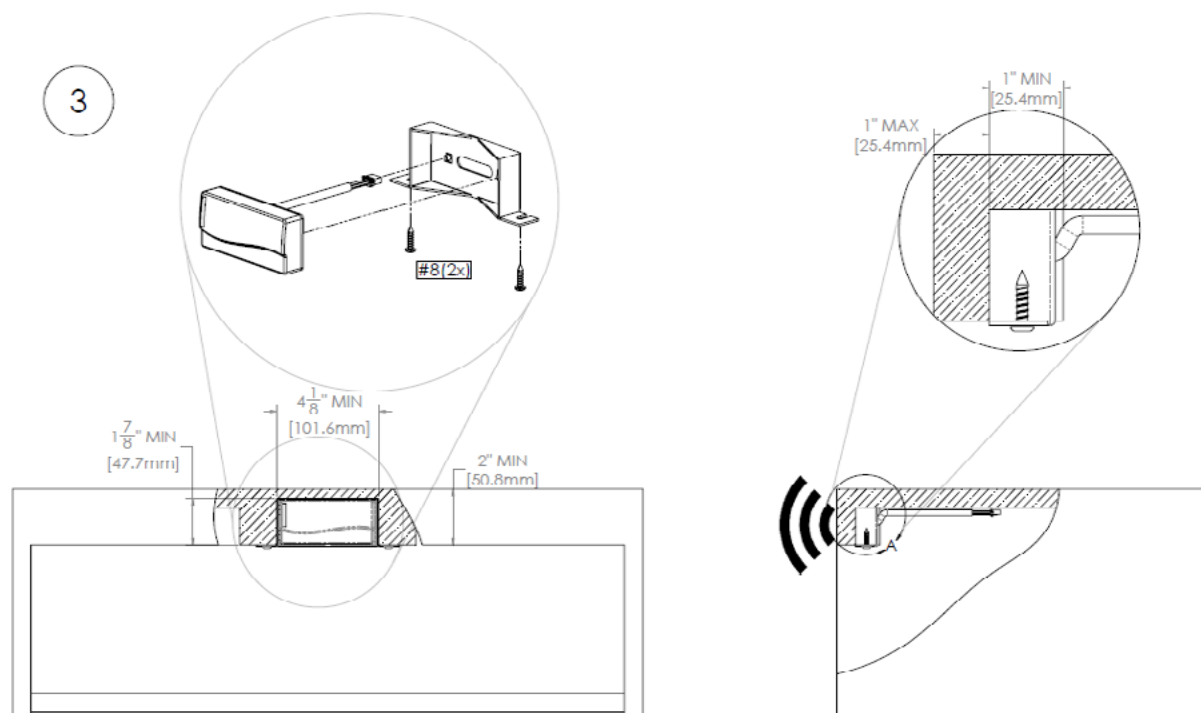
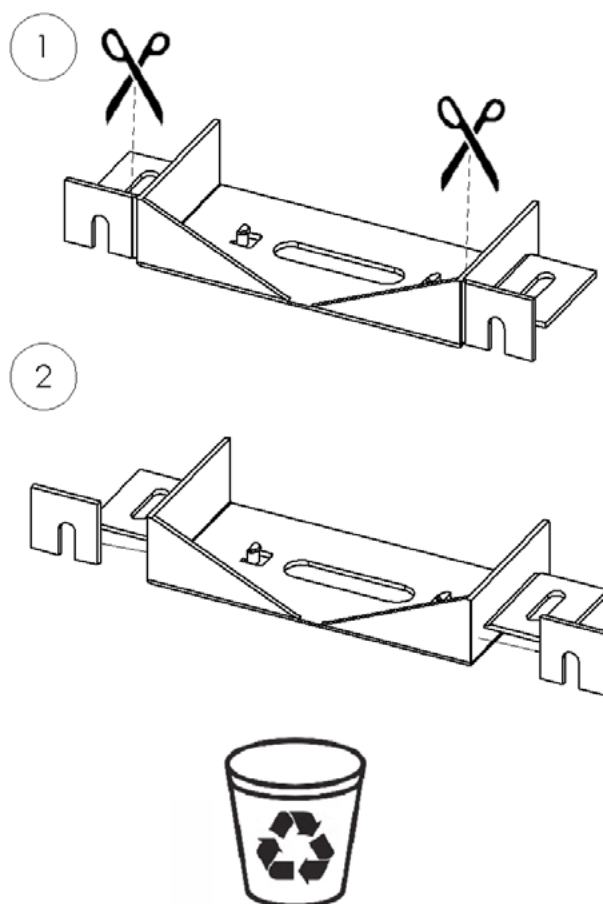


Figure 1.1 Holder Prep - Vertical



1.1.2 - Horizontal Orientation



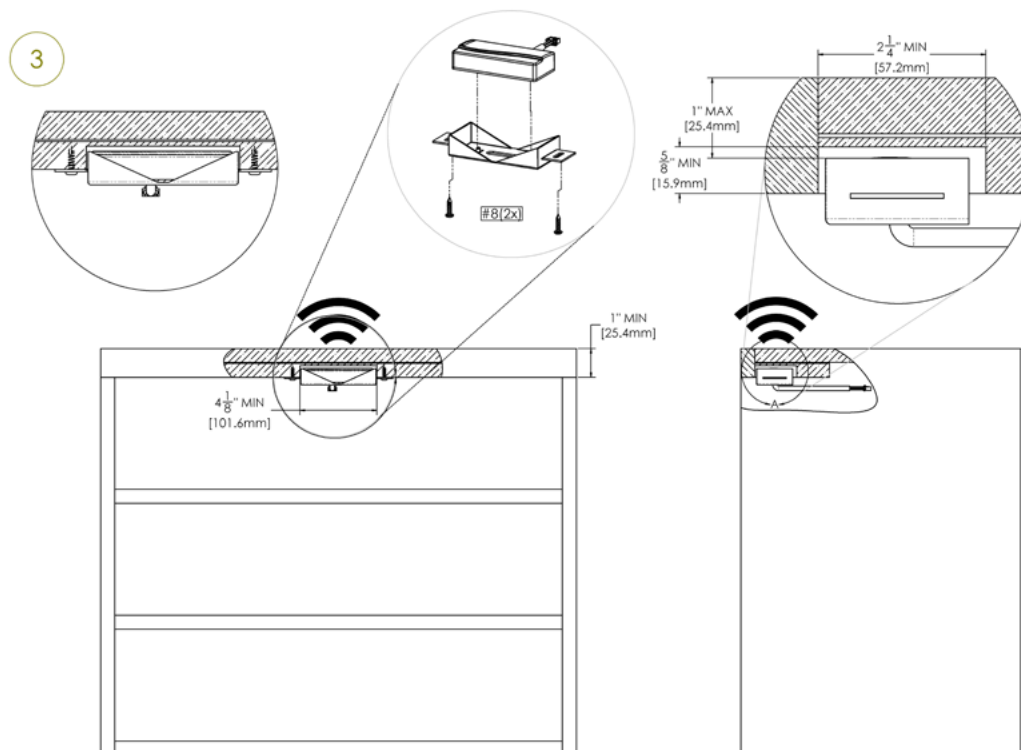


Figure 1.4 Installation – Horizontal

1.2 - Surface Mounting

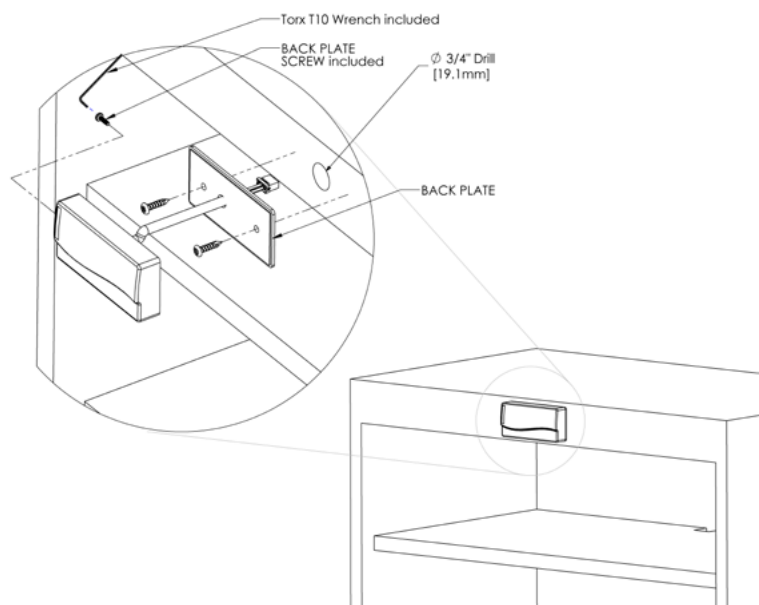


Figure 1.5 Installation - Surface

(For programming information please refer to the Senseon Programming Guide)

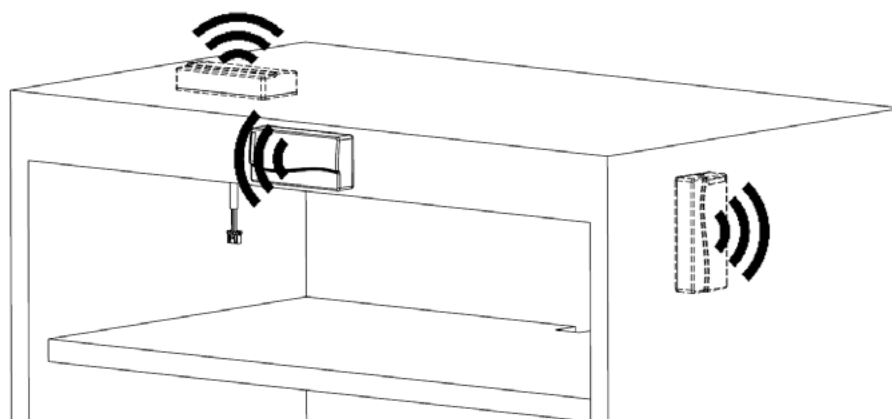


Figure 1.6 Optional surface locations

SECTION 2: **HUB INSTALLATION**

SECTION 2 HUB INSTALLATION

2.1 HUB Introduction

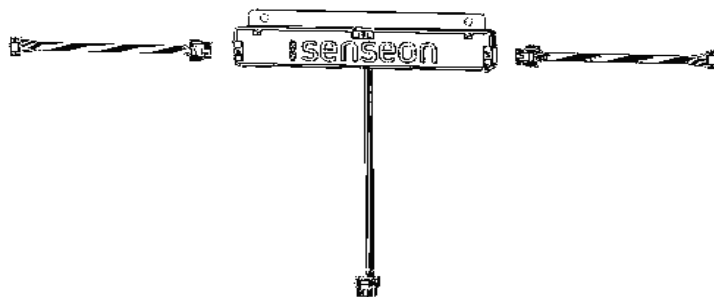


Figure 1.1 relationship of hub with other components

2.2 HUB Installation Steps

2.2.1 HUB Installation

1. Adhesive Tape Method

CAUTION: this is a one time installation. If the Hub is removed, the adhesive will be damaged.

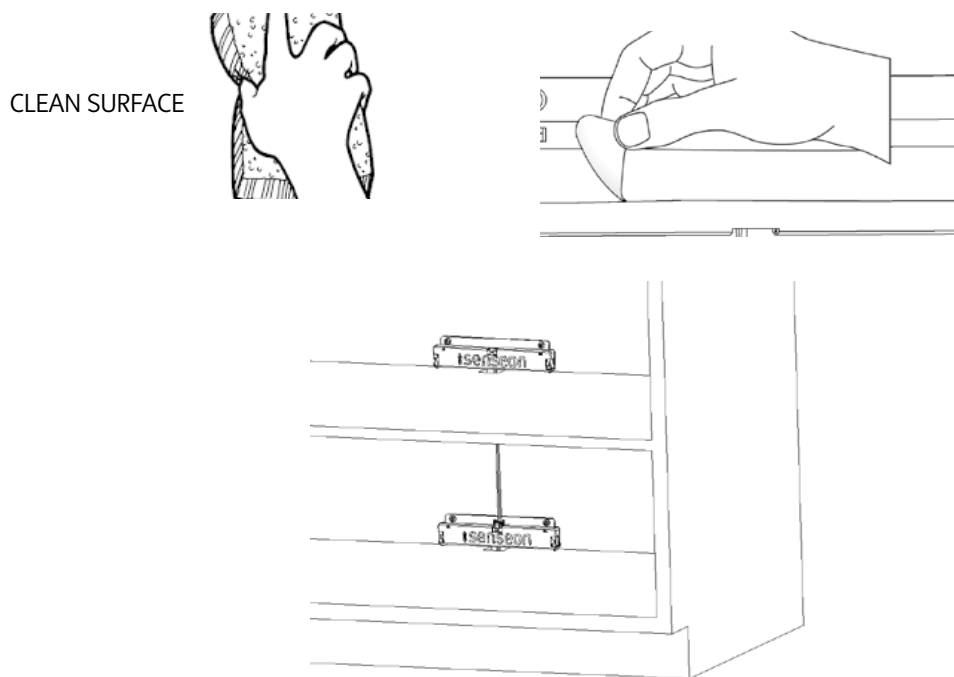


Figure 2.2 Installation - Adhesive tape

2. Screw Attachment Method

 Screws not included.

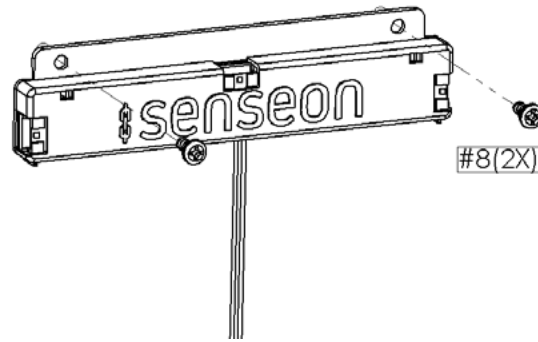


Figure 2.3 Installation - screw

2.2.2 - HUB Cable

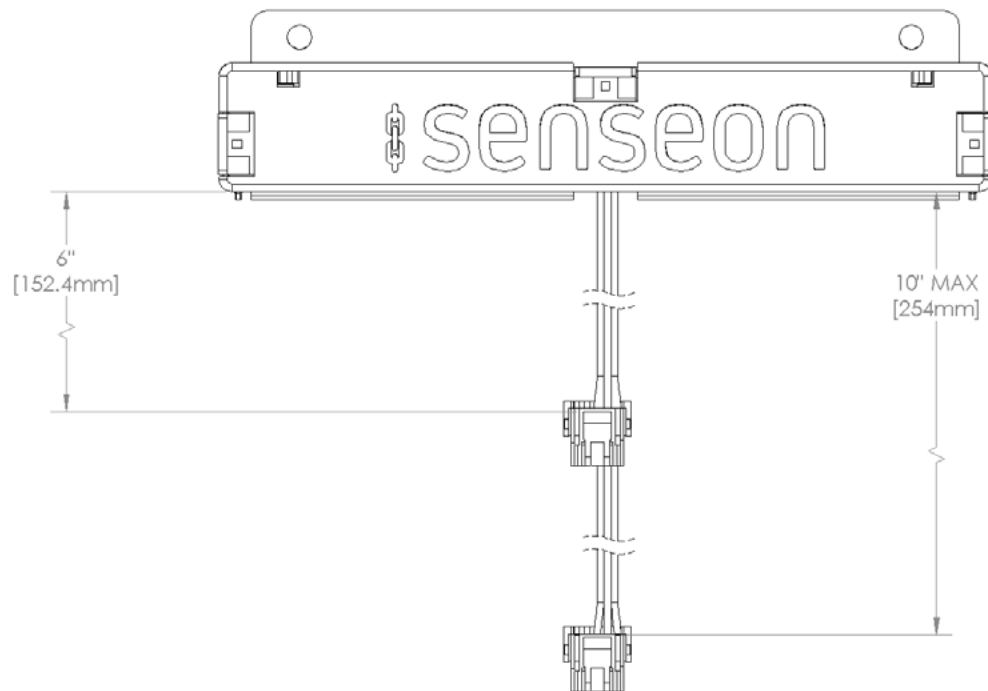


Figure 2.4 HUB Cable

2.2.3 - HUB Wire Management

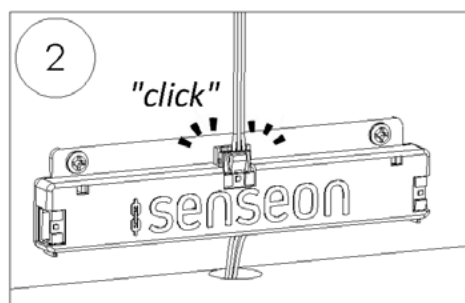
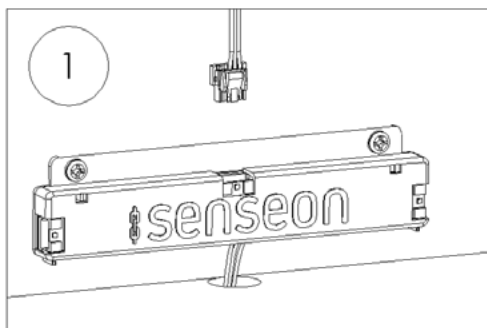


Figure 2.5 Hub to Hub

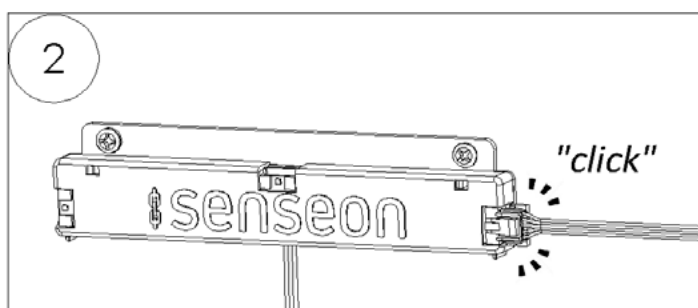
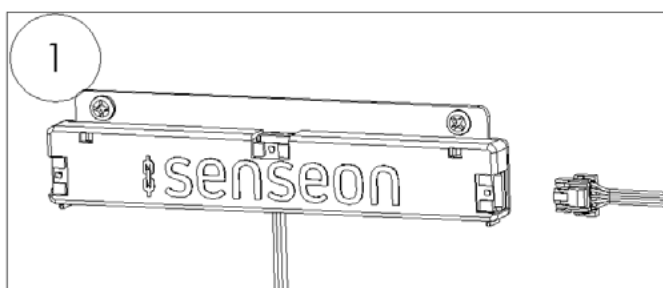


Figure 2.6 Lock to Hub

SECTION 3: **POWER SUPPLY INSTALLATION**

SECTION 3 POWER SUPPLY INSTALLATION

There are two ways to mount the power supply:

- 1) Through Panel
- 2) Surface Mounting

3.1 Through Panel Mounting

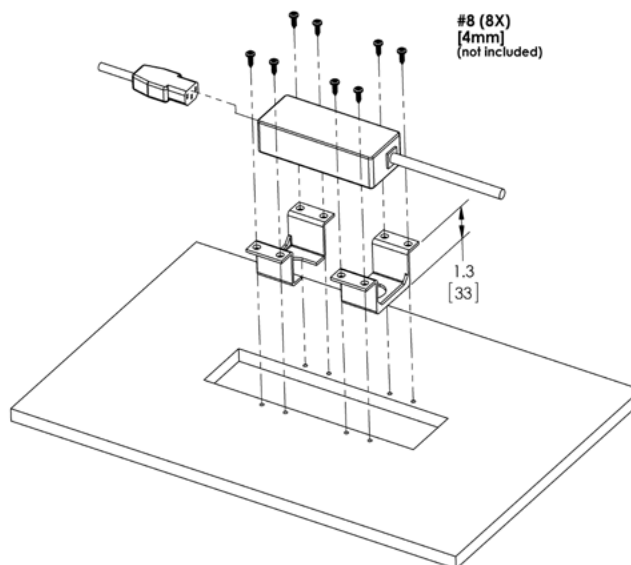


Figure 3.1 Through Panel Mount

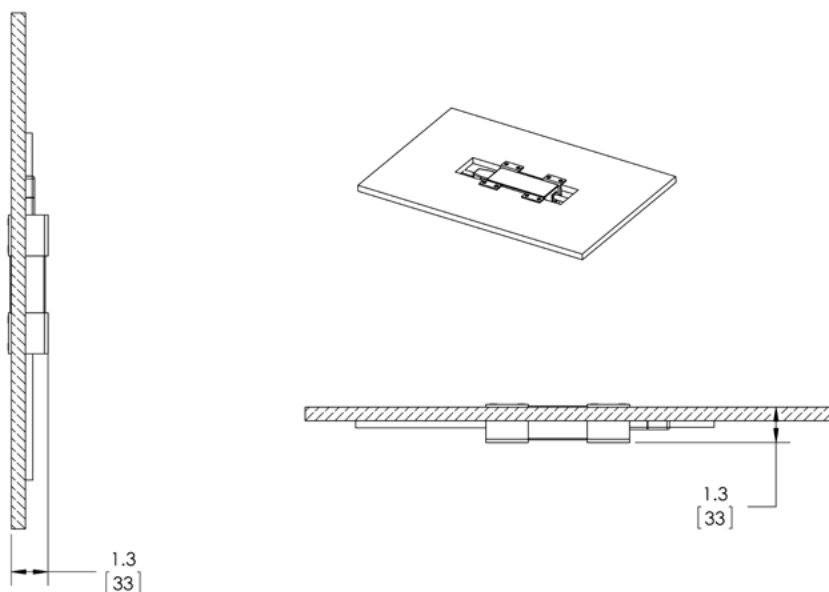


Figure 3.2 After Installation Mounting

3.2 - Surface Mounting

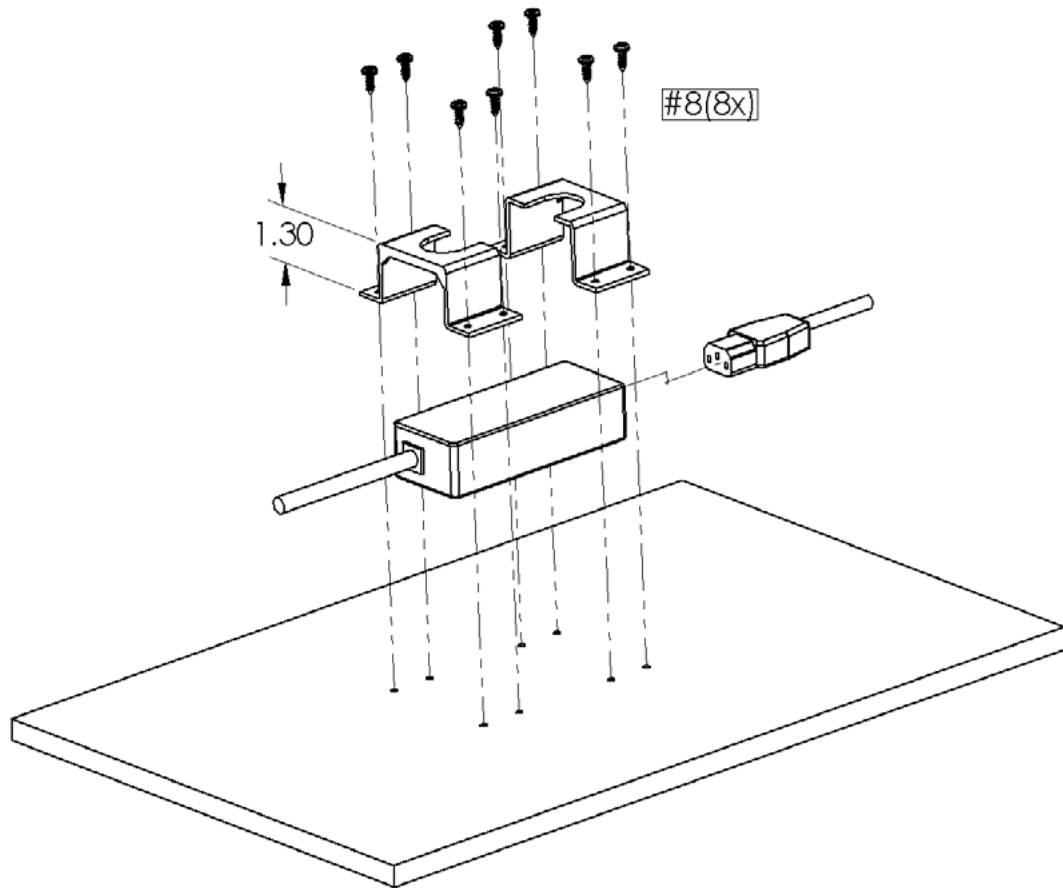


Figure 3.3 Surface Mounting

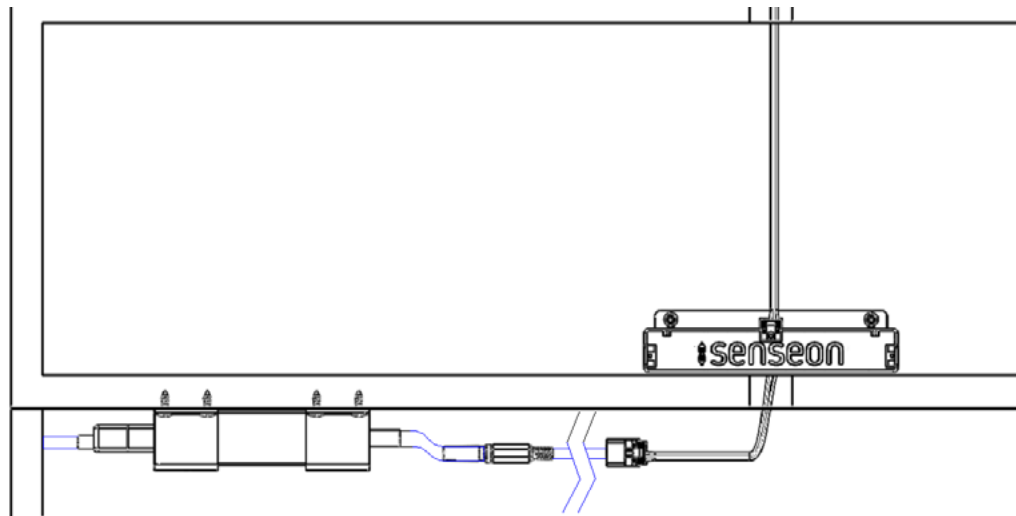


Figure 3.4 Installation – under bottom panel or partition shown

SECTION 4: **CABLE INSTALLATION CONNECTIONS**

SECTION 4 CABLE INSTALLATION CONNECTIONS

4.1 Cable to Cable connections

4.1.1 3 Wire Cable to 3 Wire Cable

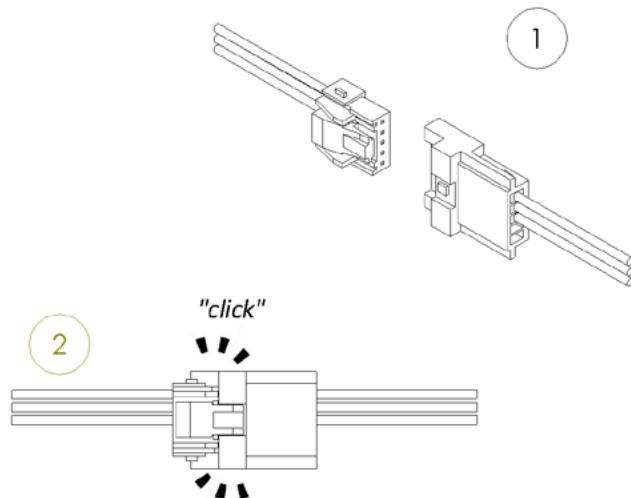


Figure 4.1 3 wire cable to 3 wire cable locking connection

4.1.2 3 Wire Cable to 5 Wire Cable

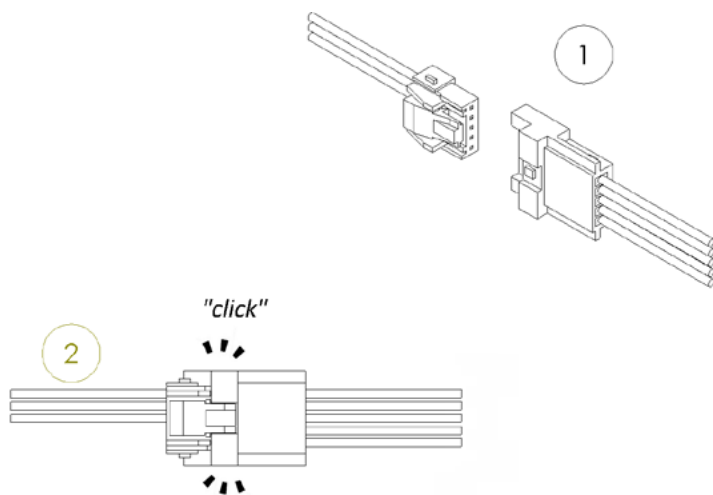


Figure 4.2 3 wire cable to 5 wire cable locking connection

4.1.3 5 Wire Cable to 5 Wire Cable

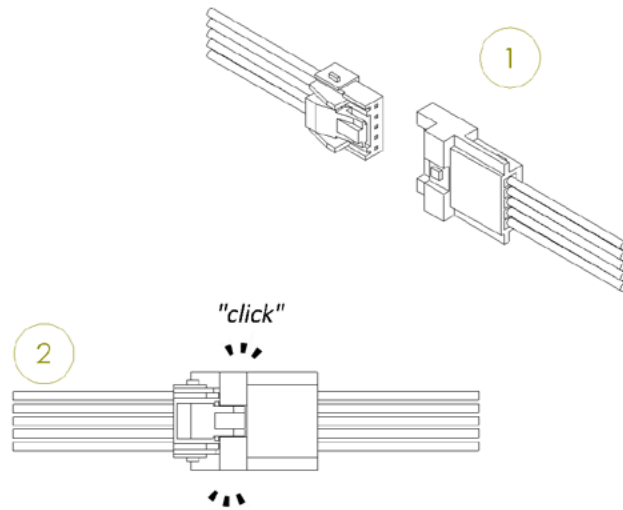


Figure 4.3 5 wire cable to 5 wire cable locking connection

4.1.4 Cable Disconnect

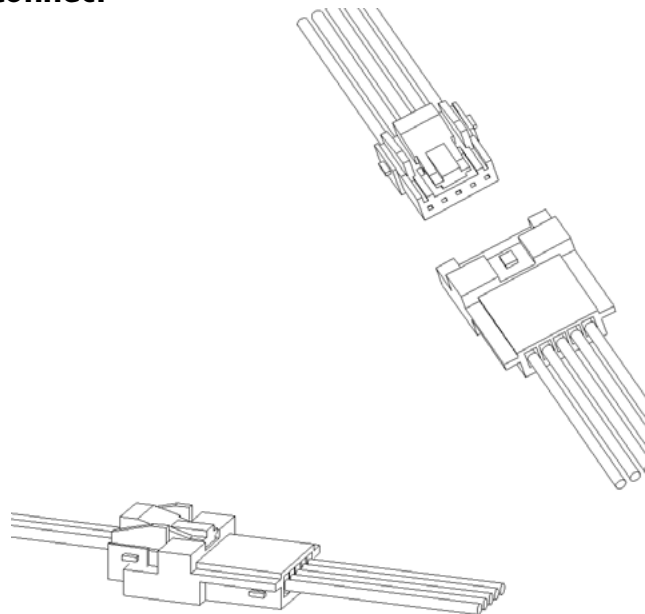


Figure 4.4 Unplug wire

4.2 Cable to Hub Connections

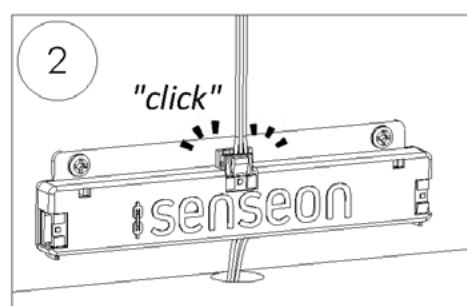
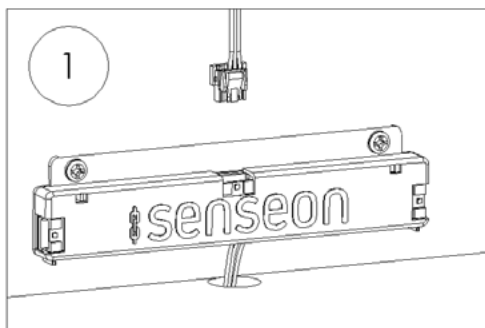


Figure 4.5 Hub cable to Hub connection

4.3 Lock Cable to Hub Connections

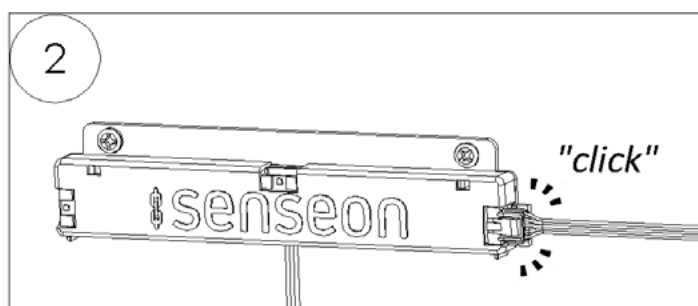
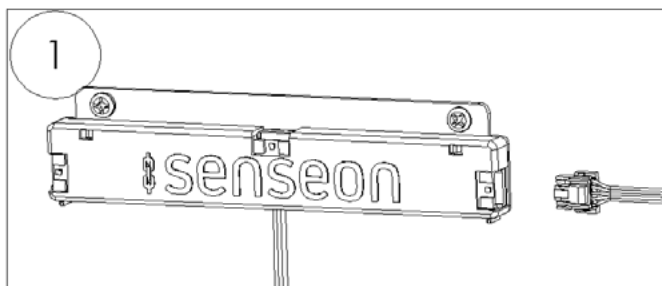


Figure 4.6 Lock cable to Hub connection

4.4 E-Lock to Lock Cable Connection

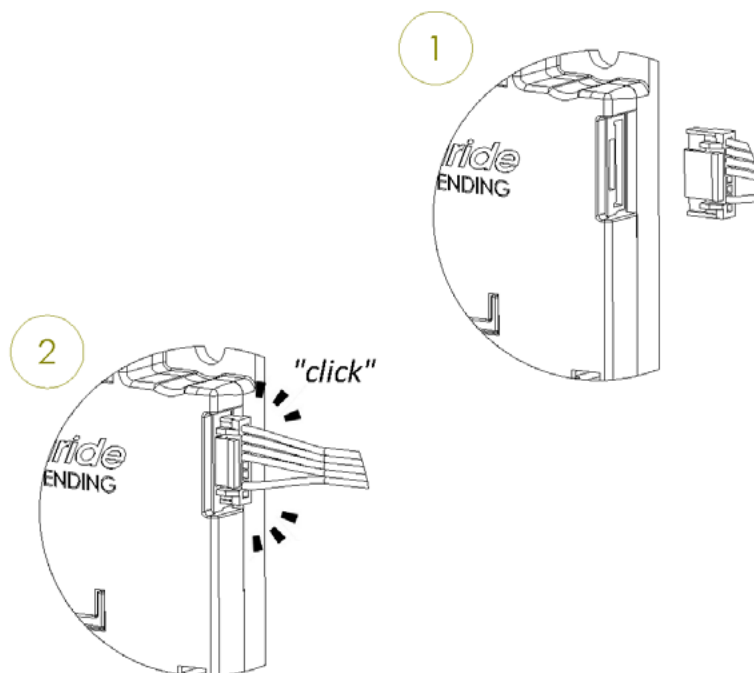


Figure 4.7 Senseon stand alone E-Lock

4.4.1 3135 ECEL/TREL E-Lock to Lock Cable Connection

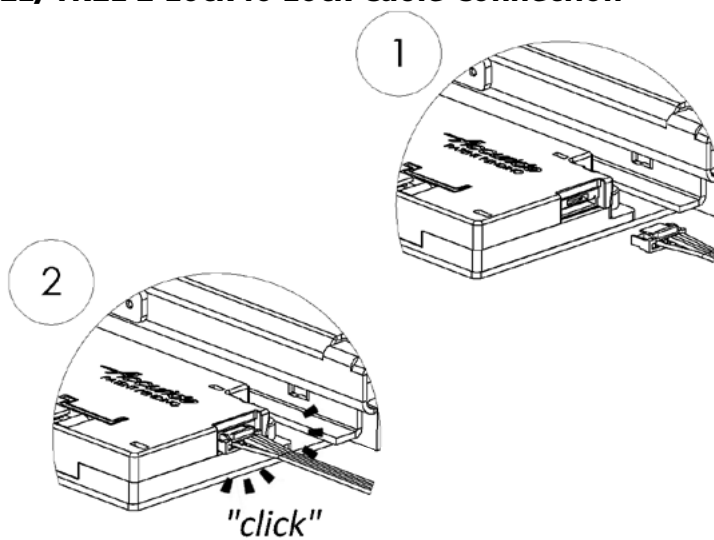


Figure 4.8 Senseon Eclipse under mount E-Lock

4.4.2 38EL E-Lock to Lock Cable Connection

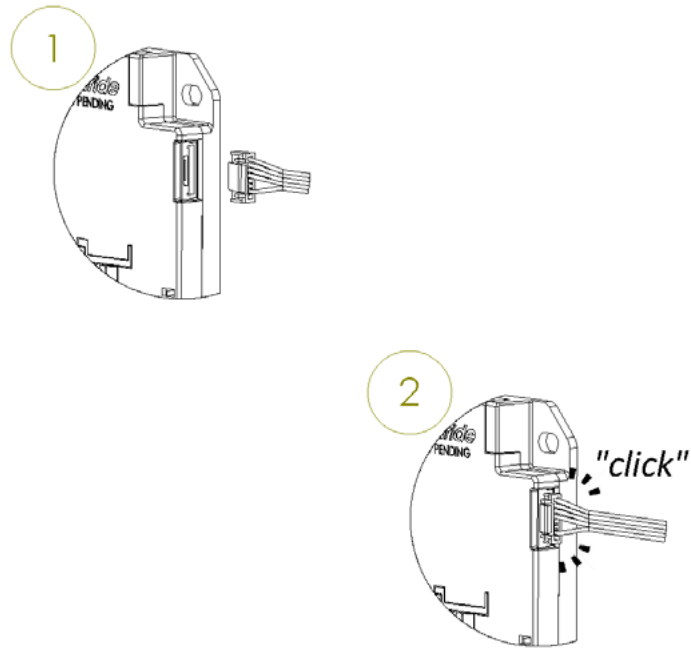
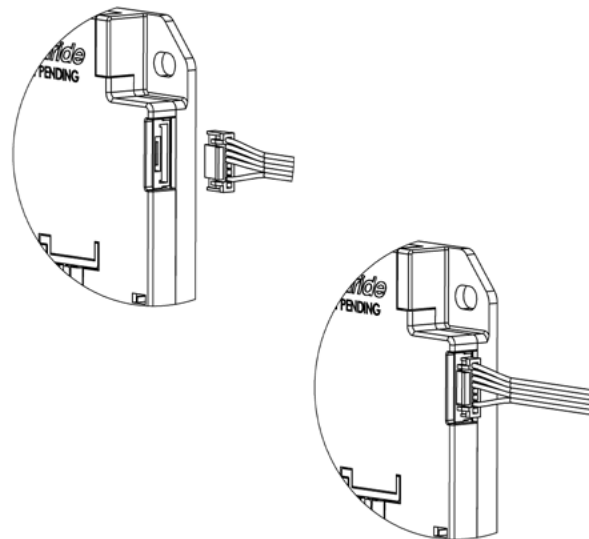


Figure 4.9 Senseon side mount slide E-Lock

4.4.3 E-Lock to Lock Cable Disconnect



4.5 Power Supply to DC Power Cable Connection

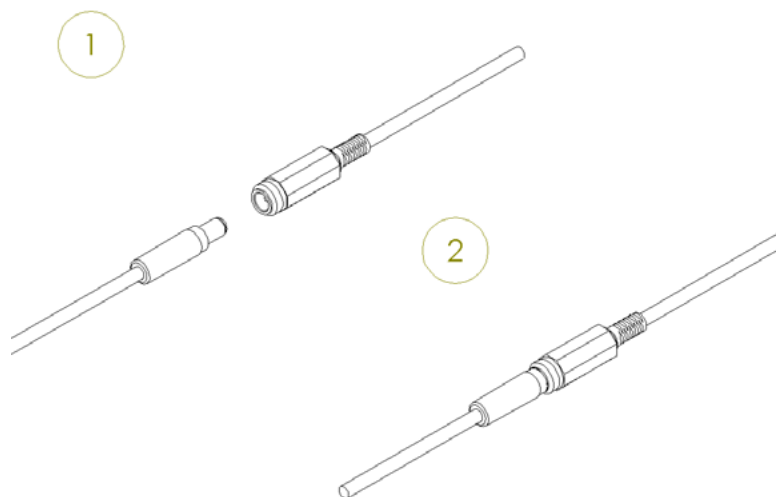


Figure 4.10 power supply cable connection

SECTION 5: CABLE ROUTING CONNECTIONS

SECTION 5 CABLE ROUTING AND CONNECTIONS

5.1 Hub Group Connections

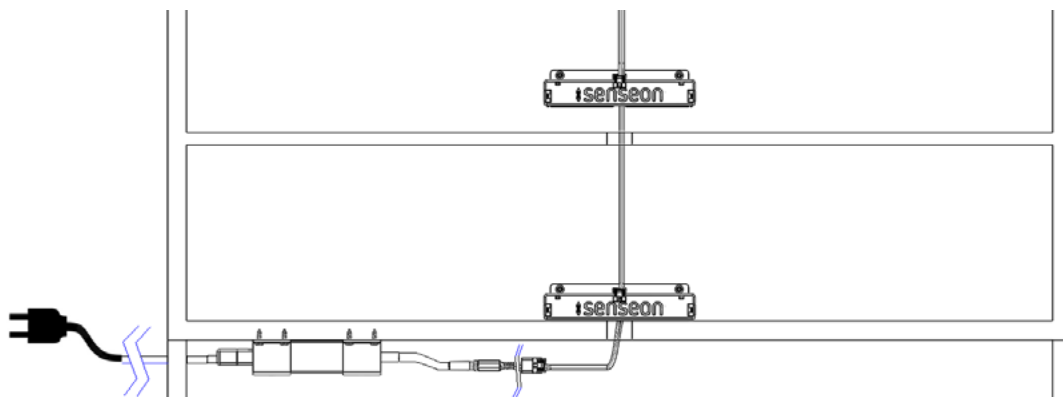


Figure 5.1: Power cord management

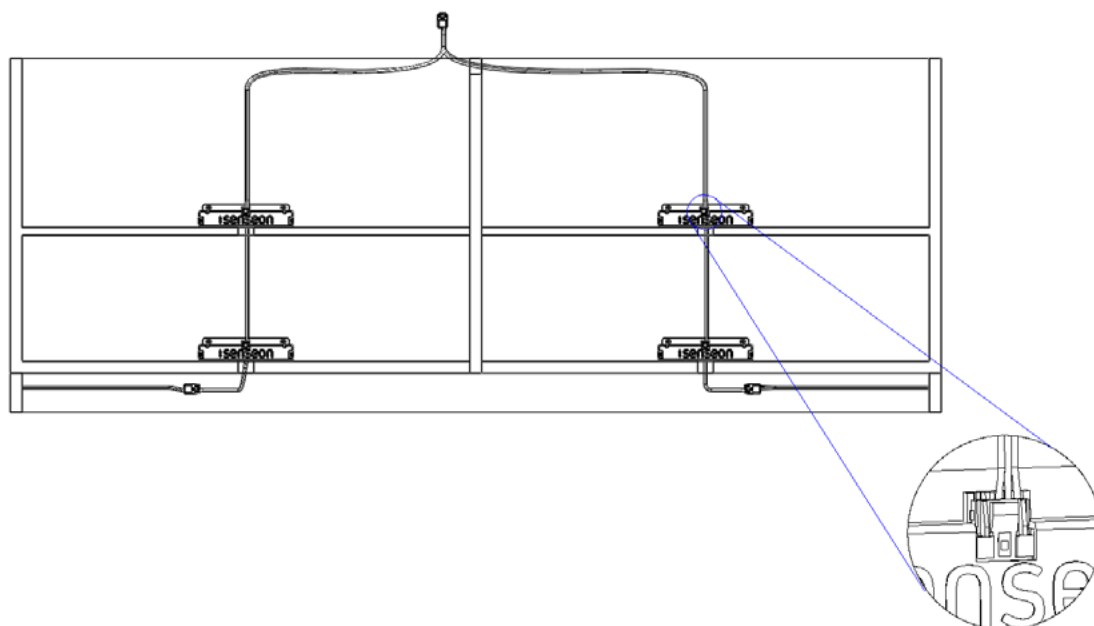


Figure 5.2: Top link cable connecting two hub groups

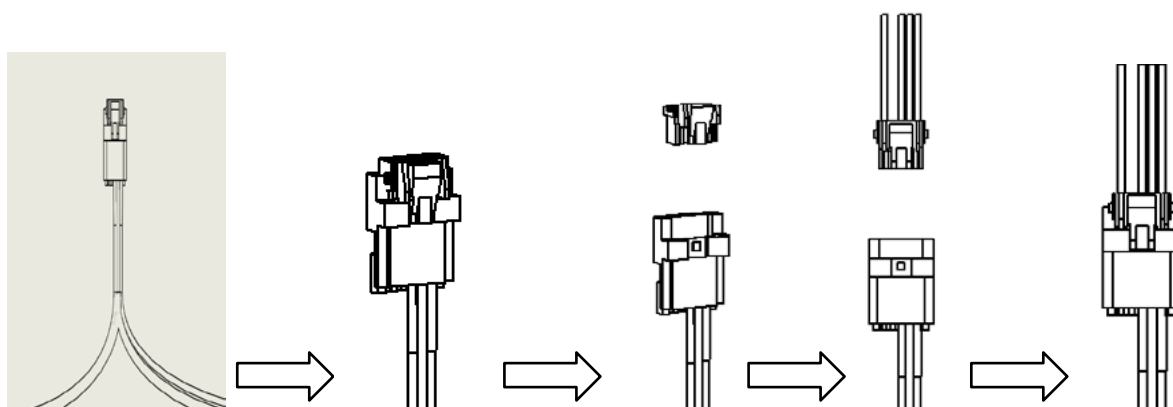


Figure 5.3: Capping connector in top link cable is removed for reader connection

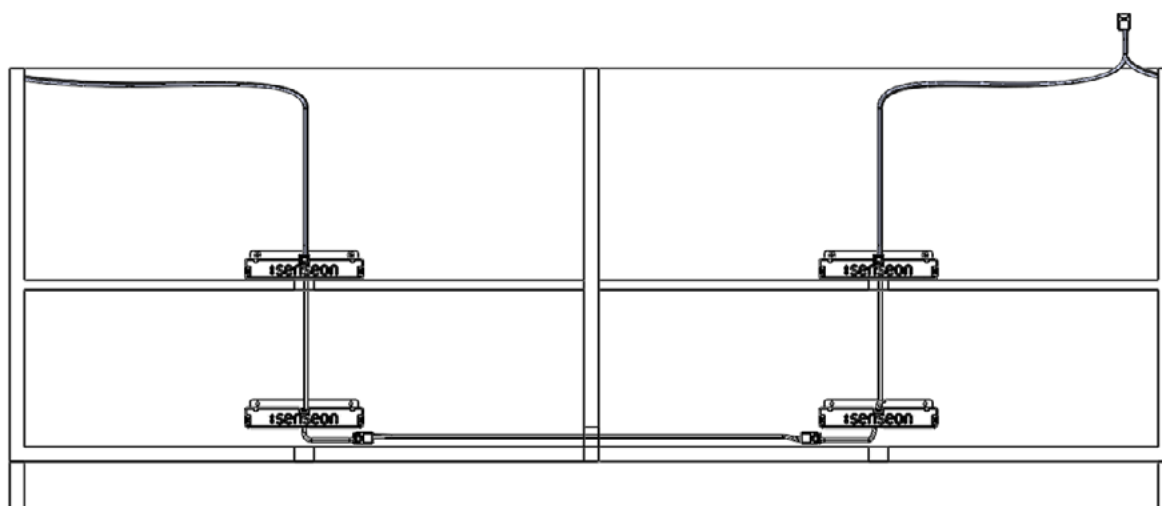


Figure 5.4: Two hub groups connected by bottom link cable inside the cabinet

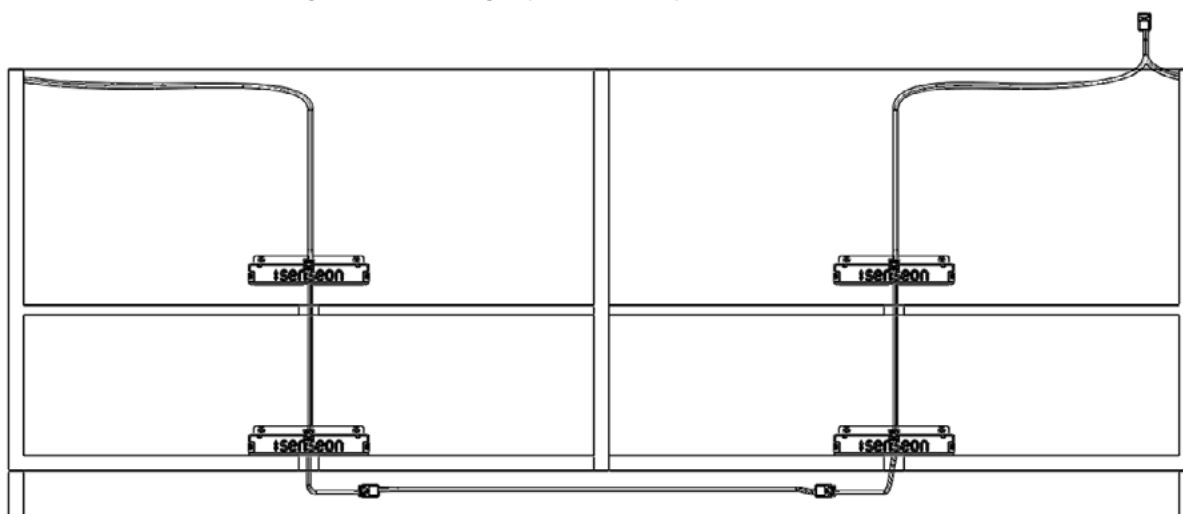


Figure 5.5: Two hub groups connected by bottom link cable in the cabinet toe kick

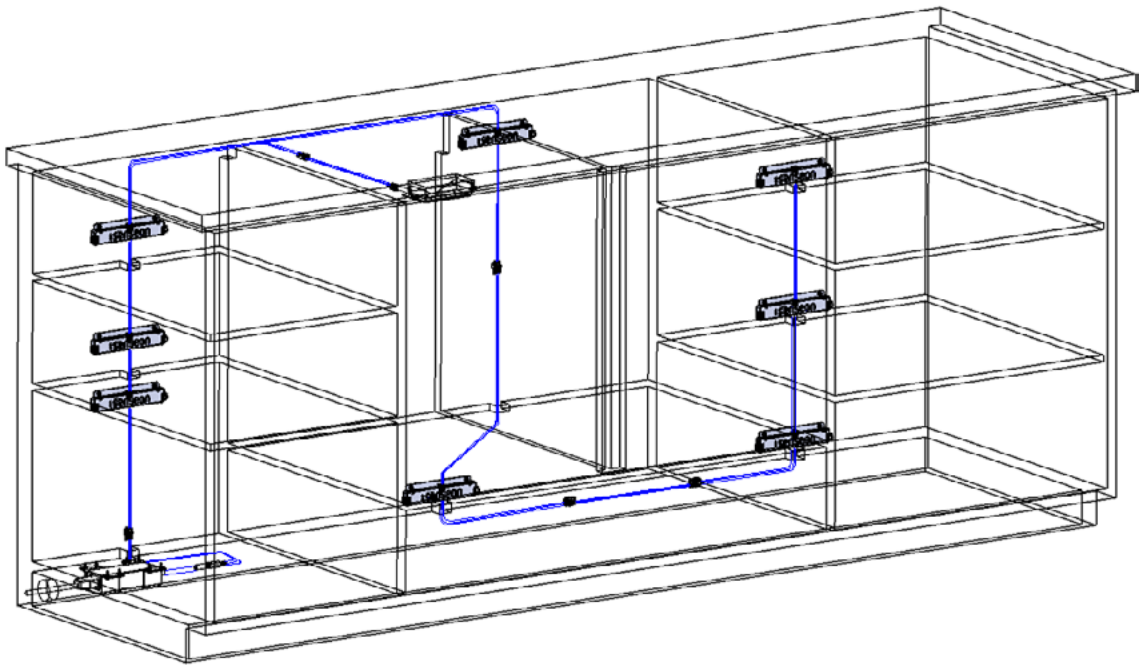


Figure 5.6: Complete cabinet assembly using both top link and bottom link cables (locks not displayed)

5.2 - Senseon Stand Alone Electronic Lock (10EL, 10ELAO, 10TREL) Cable Routing

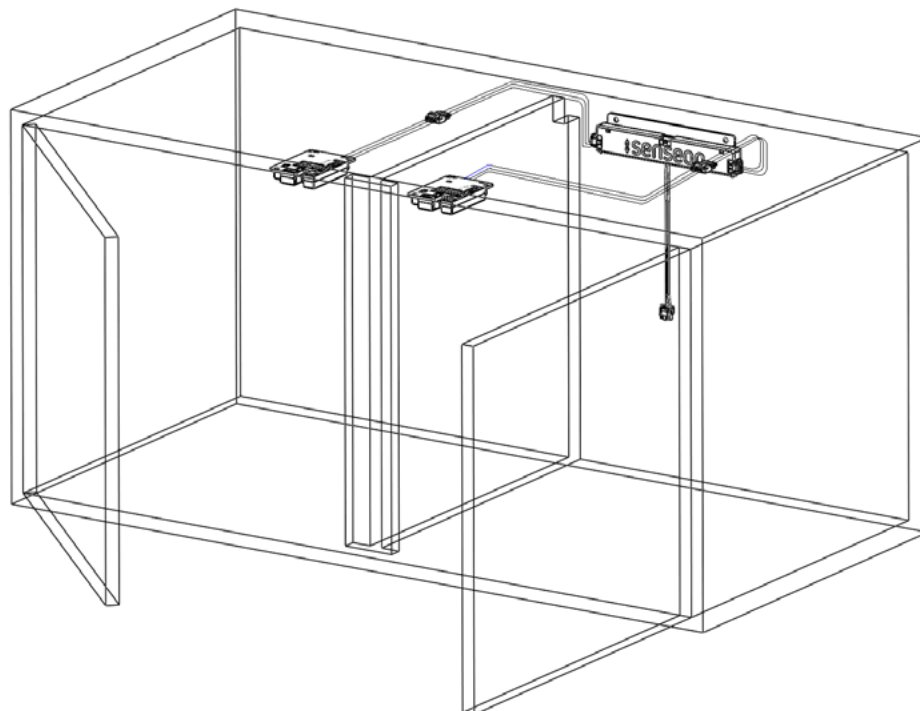


Figure 5.7: Two lock cables routing from a single hub

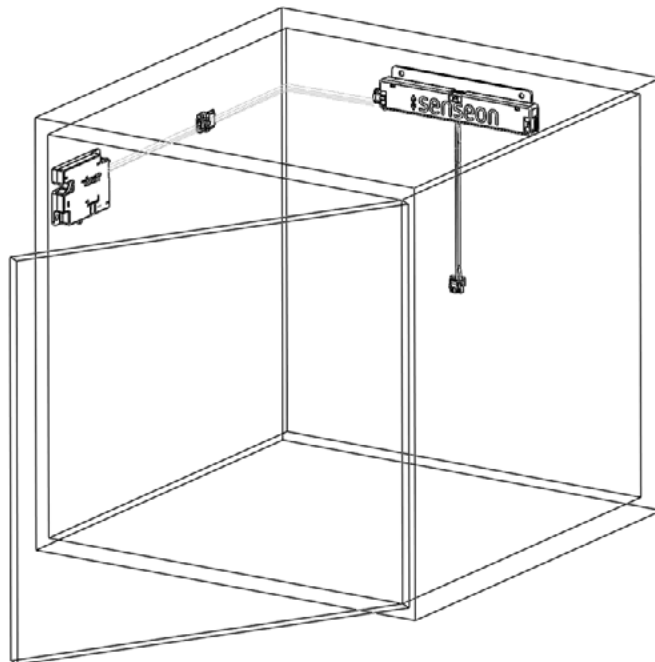


Figure 5.8: One lock cable routing from a hub to a side mounted stand alone lock

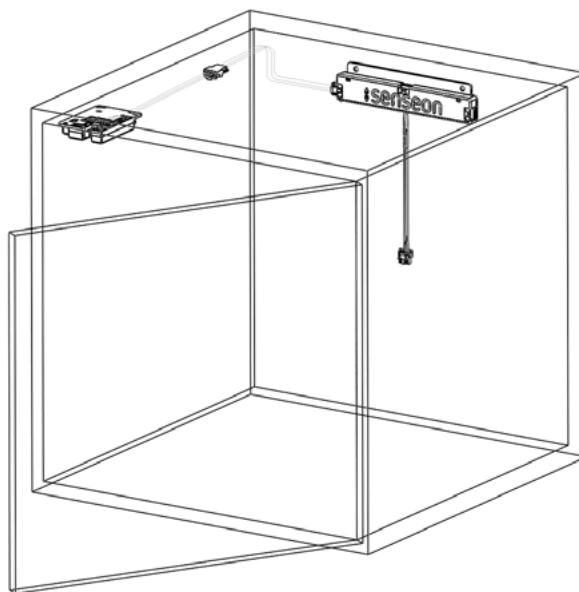


Figure 5.9: One lock cable routing from a hub to a flat mounted stand alone lock

5.3 Cable Clip Installation

- Step 1 : Clean the surface that clip will be applied to
- Step 2 : Attach clip at approximate position on cable
- Step 3 : Peel backing off clip adhesive pad
- Step 4 : Press clip onto surface where desired

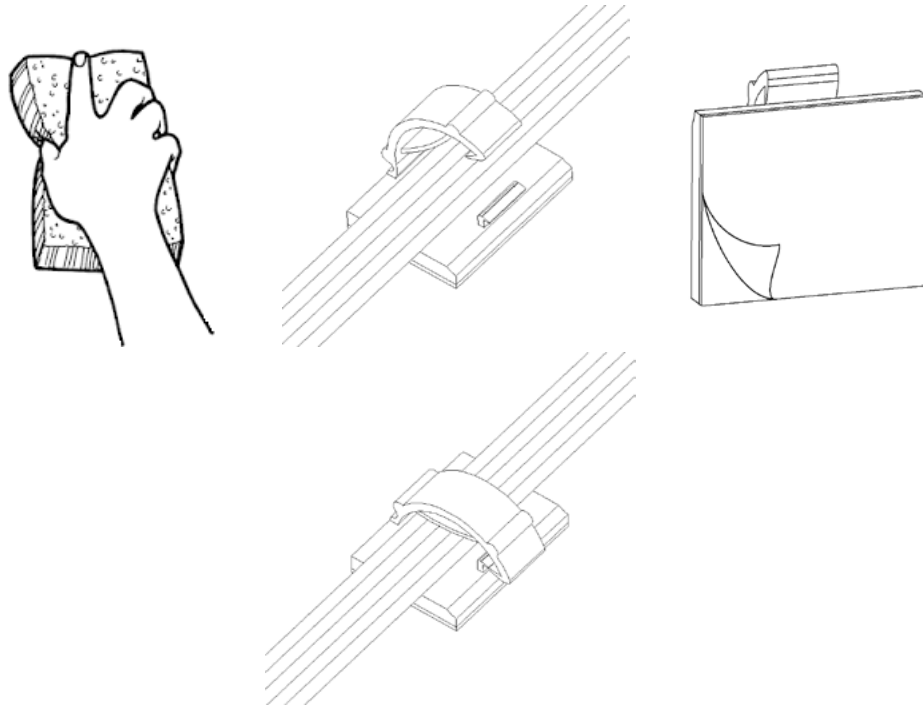


Figure 5.10: Cable clip installation steps

5.4 Cable Spacing and Corner Arrangement

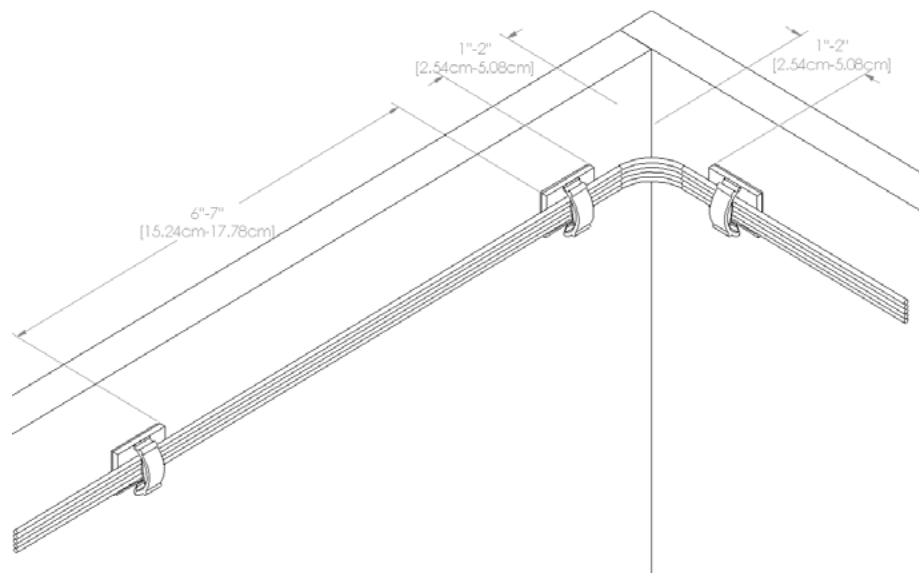


Figure 5.11: Cable clip arrangement

5.5 Managing Excess Cable

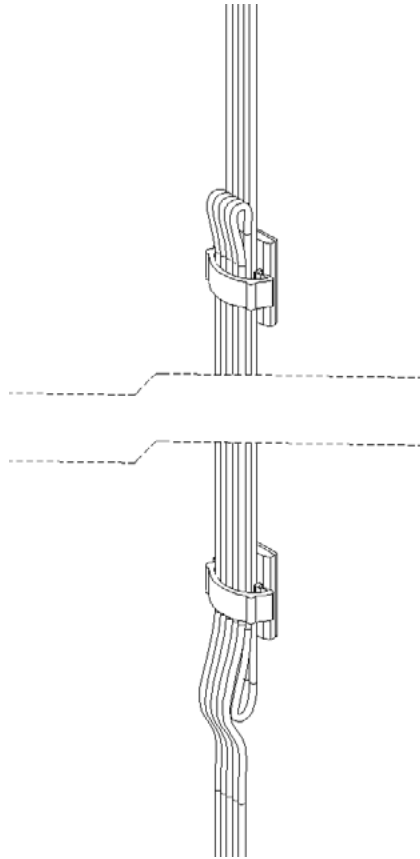


Figure 5.12: Excess cable length management

SECTION 6: E-LOCK CABLE CONNECTIONS

SECTION 6 E-LOCK CABLE CONNECTIONS

6.1 3135 TREL/ECEL

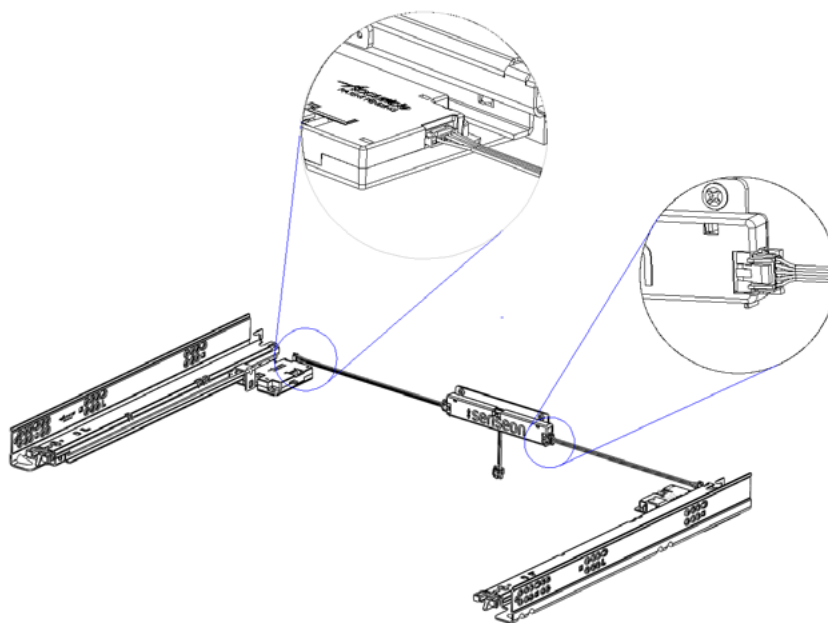


Figure 6.1 3135 TREL or ECEL with Dual Locking Slides

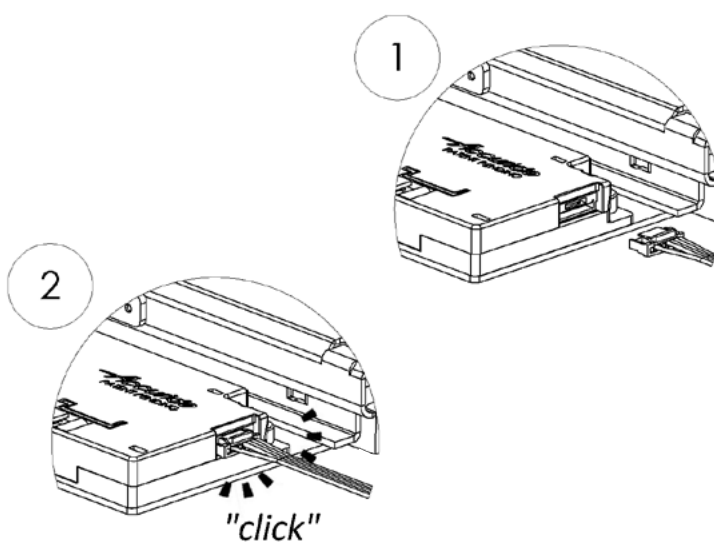


Figure 6.2 Lock Cable Connecting to 3135 ECEL/TREL Lock

6.2 3135 ECEL

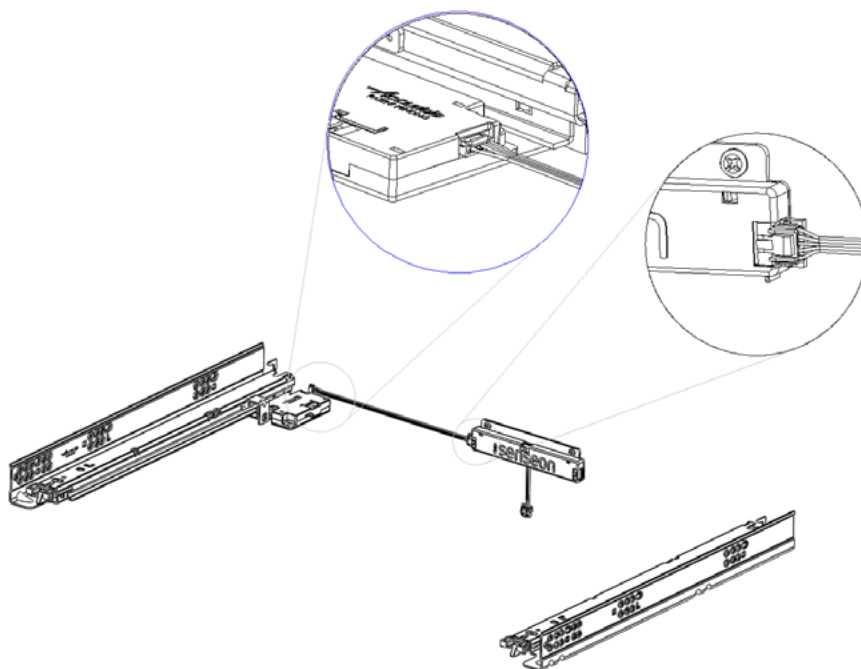


Figure 6.3 3135 ECEL Single E-Lock

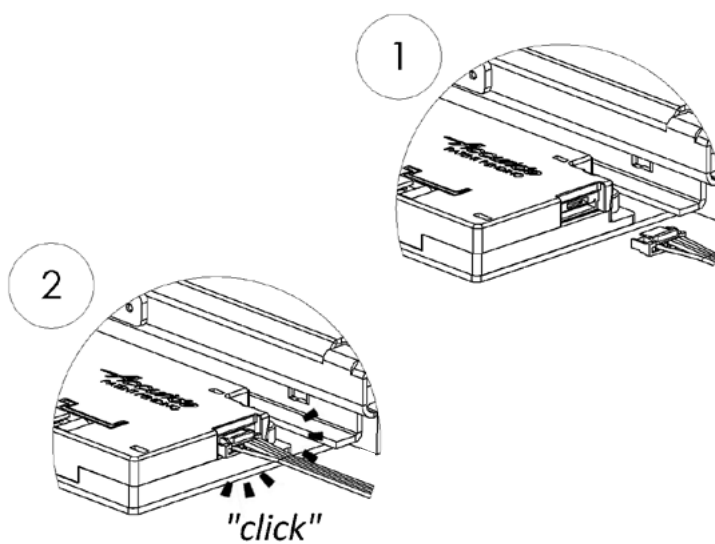


Figure 6.4 Lock Cable Connecting to 3135 ECEL/TREL Lock

6.3 38EL/38ELAO

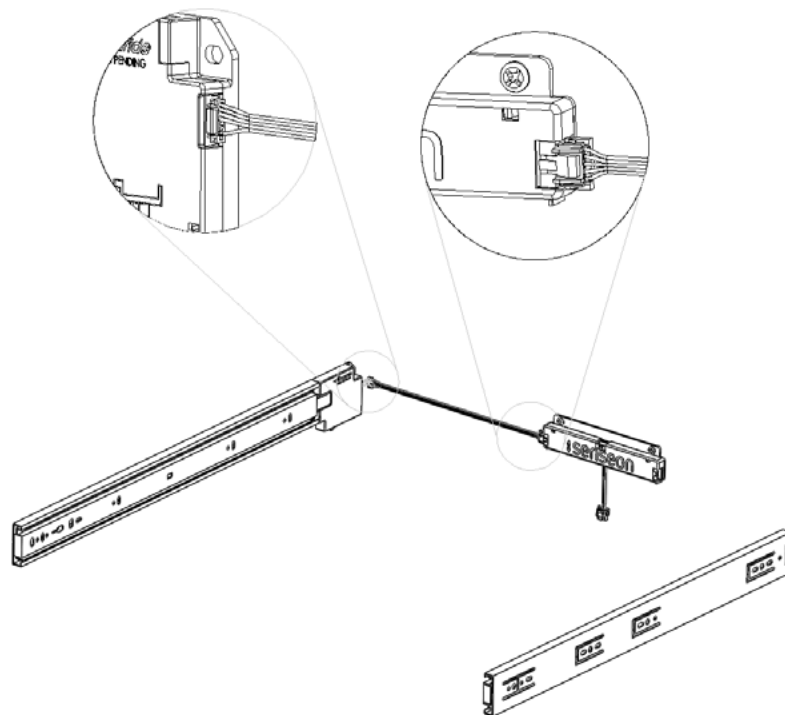


Figure 6.5 38EL Single E-Lock

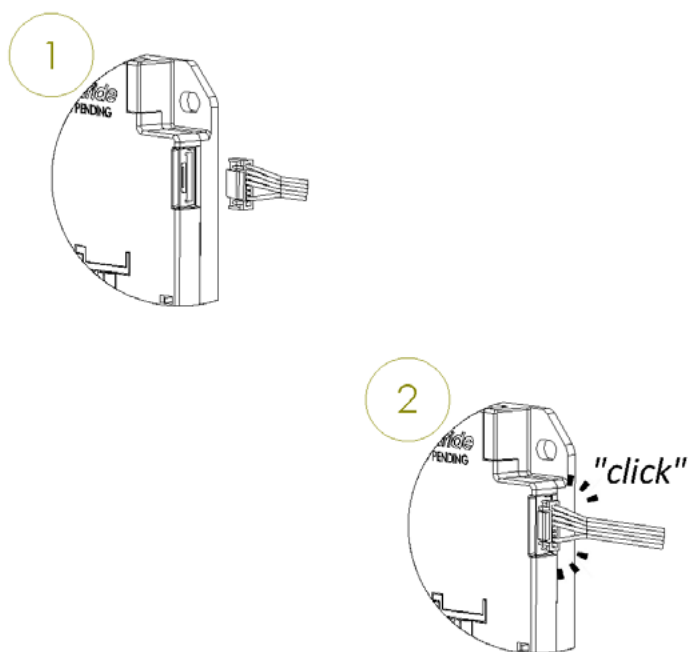


Figure 6.6 Lock Cable Connecting to 38EL E-Lock

6.4 1oEL/1oTREL/1oELAO

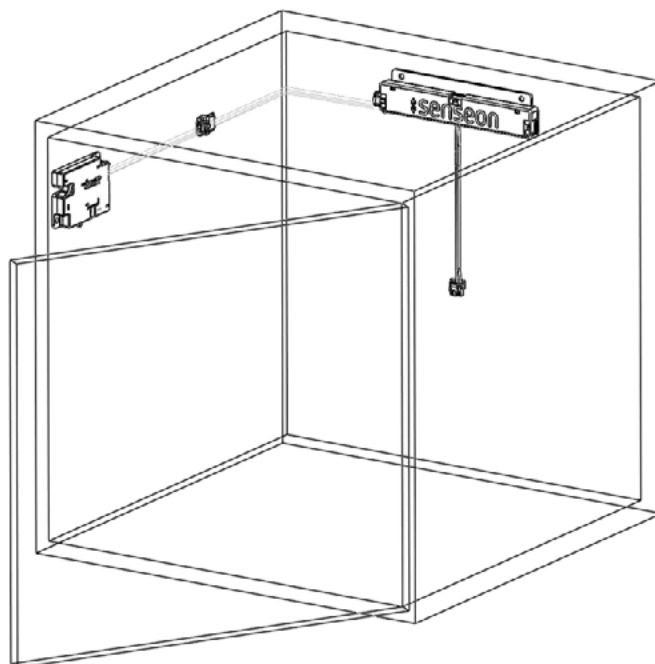


Figure 6.7 Stand alone E-Lock; 1oEL , 1oTREL or 1oELAO

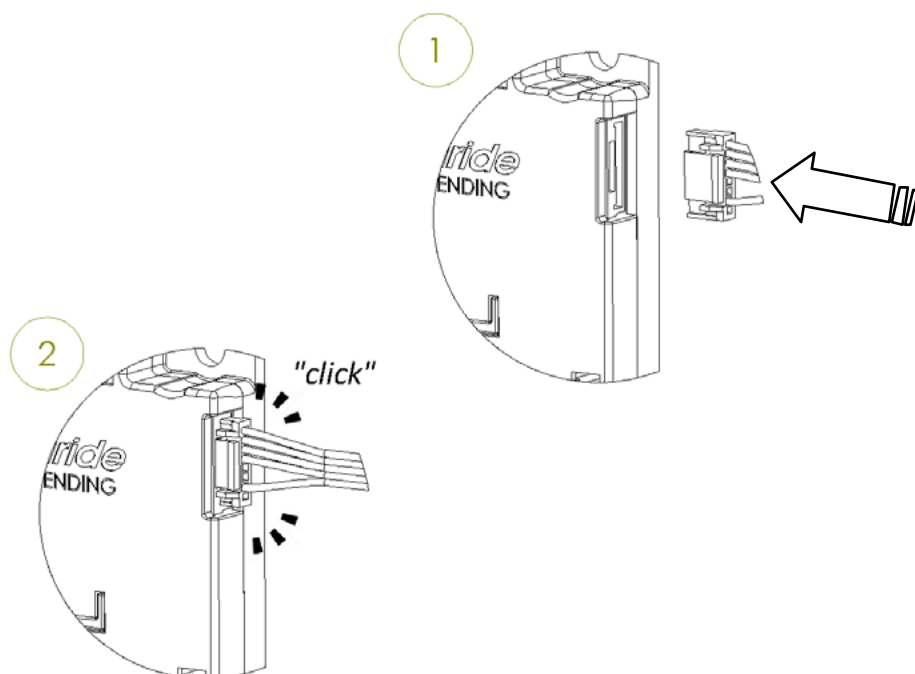


Figure 6.8 Lock Cable Connecting to the Stand Alone E-Lock

NEED TO KNOW MORE?

For design guidelines, see [Senseon Design Guide](#)

For ordering instructions, see [Senseon Ordering Guide](#)

For further questions, see Senseon FAQs at accuride.com/en-us/markets-innovation/secure-access-control-systems

Still have questions? Please contact Senseon technical support at (800) 688-8242.



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