

# Installation of DoorTag and Controller

## Overview

This document provides practical guidance for the successful installation of Solo at customer sites.

It focuses on wireless technologies, including optimal device placement, maintaining signal integrity, and best practices to minimize interference. This is to simplify the installation experience and ensure the system functions reliably.

## Solo - Controller

The Solo - Controller does not require any network infrastructure wiring, or wiring between the Solo - Controller and DoorTag. All communication occurs directly between the controller and the user's phone via Bluetooth.

As with all wireless installations, it's essential to plan carefully. Consider environmental factors such as wall materials, potential sources of interference, and distances between components to maximize performance and reliability.

### Installation tips

- Avoid placing Solo - Controller near large metal objects or behind dense walls.
- Ensure a clear and reasonable range (ideally within 2–3 meters) between the user's phone and the Solo - Controller for a consistent Bluetooth connection.
- Test the Bluetooth signal strength on-site before finalizing the placement.

## Solo - DoorTag

The Solo - DoorTag communicates with a user's phone via NFC (Near Field Communication).

It does not directly communicate with the Solo - Controller. Instead, it serves as a trigger to initiate communication between the user's phone and the Solo - Controller. Proper placement of the DoorTag is crucial to ensure seamless system operation.

When a user presents their phone to the Solo DoorTag, it prompts the phone to initiate a Bluetooth connection with the Solo - Controller.

### Installation tips

- Position the DoorTag close to the Solo - Controller to maintain signal integrity between the phone and Solo - Controller during access attempts.
- Mount the DoorTag at a convenient height and position for users to easily present their phones.
- The DoorTag is designed to be mounted on metal, however a large amount of metal between the Solo - Controller and DoorTag could impact the Bluetooth communication between the user's phone and Solo - Controller.
- When mounting the DoorTag using the included mounting strips, ensure the surface is smooth and has been cleaned prior to mounting.