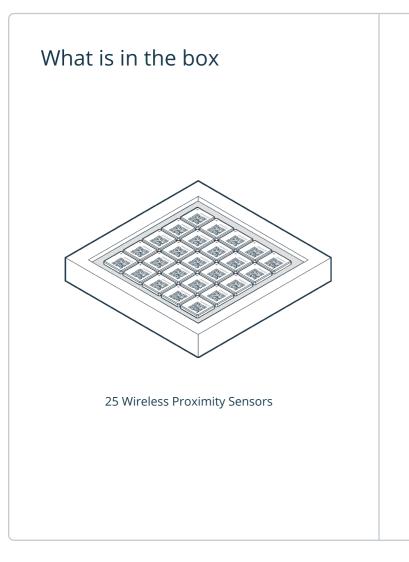


Installation Guide Wireless Proximity Sensor



What you will need

- A laptop or smartphone running the DT Studio web application <u>studio.d21s.com</u>.
 - If your company does not a DT Studio organization yet, get started at <u>d21s.com/start</u>.
- One or more Cloud Connectors (gateway) to forward sensor data to the DT Cloud.



• Optional: Range Extender accessory.

Planning the installation

Number of Proximity Sensors

One sensor per door or window.



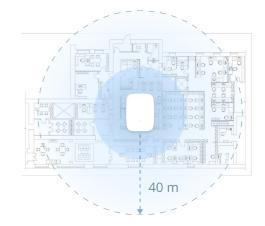
Number of Cloud Connectors

The number of Cloud Connectors needed to cover a typical office space depends on the size of the space as well as the material the walls in the space are made up of.

For example, concrete will reduce the coverage area more than thin drywall.

See the following sections for how to plan Cloud Connectors for different types of installation sites.

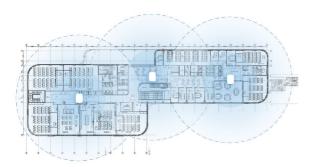
Cloud Connector Small site



One Cloud Connector is often enough to cover a smaller site.

To estimate if a single Cloud Connector can cover your entire installation site, we recommend approximating a circle with a radius of 40 m (131 ft) on the floor plan to mark the expected coverage for the Cloud Connector (2nd Gen).

Cloud Connectors Large site

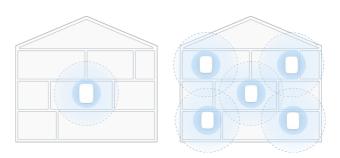


A large site with many sensors requires multiple Cloud Connectors to provide good coverage.

Estimate by approximating a circle with a 40 m (131 ft) radius on the floor plan.

Place subsequent circles with approximately 50 m (164 ft) spacing.

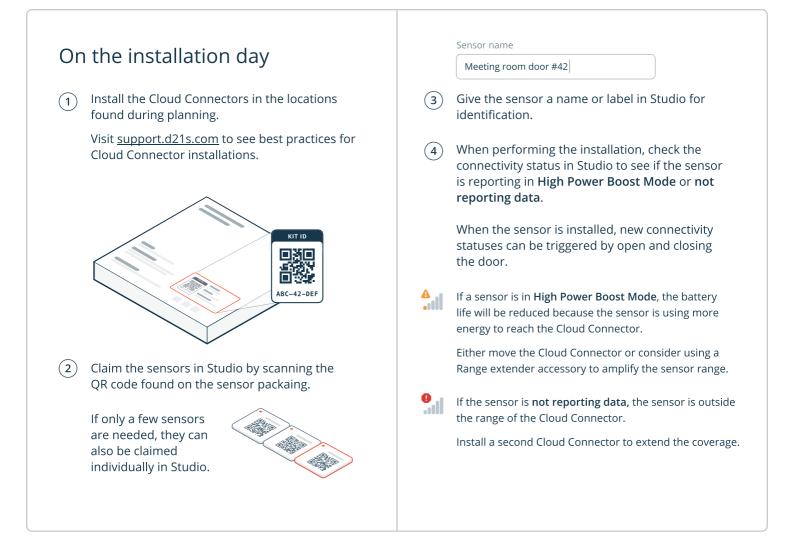
Cloud Connectors Multiple floors

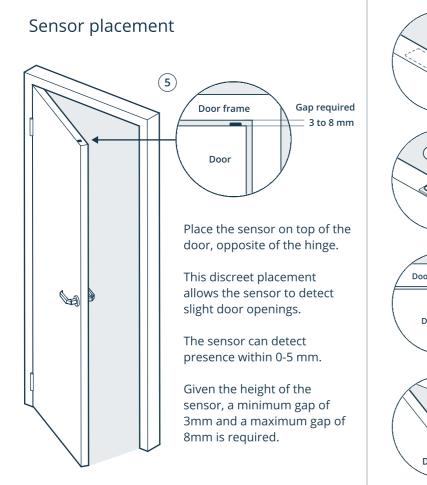


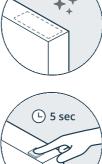
Consider that Cloud Connectors can provide coverage on the floor above and below for multifloor installations.

The range will depend on the construction of the building, especially the material of the floor separators.

If possible, plan for Cloud Connectors on each floor shifted horizontally to maximize the signal coverage, as seen in the image.





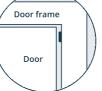


Clean and smooth surface

A dirty or uneven surface can prevent proper sensor adhesion, causing the sensor to detach.

Pressure-sensitive adhesive

Ensure proper adhesive bonding by applying pressure to the sensor for 5 seconds.



Top gap less then 3 mm?

Try moving the sensor to side of the door frame if possible.

Door

Wooden door with no gaps?

A chisel can be used to create a small square of 20 x 20 mm on top of the door. The placement ensures discreetness during normal use.

Points of Consideration

X

Avoid placing sensors on metal surfaces

Try to not place sensors directly on a metal surface as it will affect the wireless range of the sensor. Opt for non-metallic locations when possible.

Metal and glass doors

Installing Proximity Sensors can be challenging on certain door types, due to difficulty finding a location that maintains good Cloud Connector connectivity and accurately detects door status.

It is recommended to conduct a test for these door types before larger installations.

Doors with high usage? More than 100 openings per day?

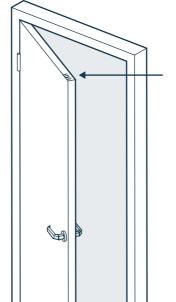
For high-usage doors, we recommend setting sensors to *Counting mode*. This aggregates opening and closing events, improving battery life by sending periodic counts instead of individual messages.

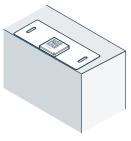
Contact <u>support@disruptive-technologies.com</u> and we'll assist you in enabling Counting mode.

Improving connectivity with Range Extenders

And In cases with poor sensor connectivity, Range Extenders can be used to improve the connection to Cloud Connectors. See mounting below.

Range Extenders placed directly on a metal surface will not improve the connection. Try repositioning the Cloud Connector closer to the sensors, ensuring a stronger and more stable connection.





Place the Range Extender at the edge of the door facing the Cloud Connector for optimal performance.

NB! Align the dot on the sensor and with the dot on the Range Extender.

Support

If any problem should occur during installation, or if you have any questions, please reach out to us.

We thank you for choosing sensors from Disruptive Technologies.

d21s.com/support

support@disruptive-technologies.com

EU +44 808 164 1905 (08:00 - 16:00 CET/CEST) US **+1 (855) 714-3344** (8 am – 5 pm EST)