Defigo Control unit

Installation Manual

Defigo AS
Org. nr. 913704665

Package contents

1 – Defigo Control Unit
1 – Power Cable

More information

For more information go to https://www.getdefigo.com/partner/home
Or contact us at support@getdefigo.com

What you will need to install

- 1 Drill
- 4 screws appropriate for the type of wall you are mounting the Control unit on
- Minimum screw dimensions M4.5 x 60mm

If installing Display together with the Control unit:

- 1 drill bit 16mm minimum for a cable with connectors
- 1 drill bit 10mm minimum for a cable without connectors
- A CAT-6 cable and RJ45 connectors, the cable, between the Display unit and the Defigo control unit, or for connecting the Display unit to a POE power source.

Installation manual for Display unit is in a separate document.

Prerequisite

Defigo should only be installed by professional technicians with the proper training. Installers are expected to be able to use tools, crimp cables and other relevant activities to perform a technical installation.

The Defigo control unit is meant for indoor installation only.

Overview

Thank you for choosing the Defigo access control system. The Control unit will control the doors when they are opened from the Defigo app.

IMPORTANT INFORMATION
Read before you install

NOTE: NEVER OPEN THE CONTROL UNIT CASE. THIS VOIDS THE WARRANTY OF THE UNIT AND COMPROMISE THE INTERNAL ENVIRONMENT OF THE ELECTRONICS.

Installation preparations
Before installation day you should provide the information from the QR code to Defigo by sending an email to support@getdefigo.com. Remember to add the address, entrance, and name of the door for the control unit.
If installed together with a Display unit you need to provide the QR code for the correct Display as well.
If connecting the Control unit to more than one door you need to provide which relay you will connect the door to.
Doing this before the installation ensures that the system is prepared, that your user account is added to it for test purposes and that you have the necessary installation codes for the Defigo Displays.

Choosing the position of the control unit
The control unit can only be installed indoors in a dry environment. It should be placed out of reach for the public, preferably in a closed space or above a false ceiling.

When choosing the right place for the control unit you need to assess the building layout. The control unit must be placed where 240/120V grid power is available. You also need to consider if it is needed to be connected to a Display unit or other devices like an elbow switch.

The control unit should always be placed so that the connectors are facing down, so they are easily accessible for installation and service.

What the Control unit can be connected to

- 12V and 24V DC door breeches.
- Connection to relays on access control systems, motor lock control devices, elevators, and other devices.
- Defigo Display unit.

ATTENTION!
Never use the 12VDC and 24VDC outputs on the control unit to power a door strike meant for AC only. In this case a separate power supply is required. The relays can still be used to control the signal.

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Power and relay connections

- Maximum power delivered by the control unit:
  - 12V output 1.5 A
  - 24V output 1 A
- This is enough to power three normal door breeches at the same time. You will have to check the power consumption of each door lock to ensure that the control unit can deliver the necessary power to supply them at the same time.

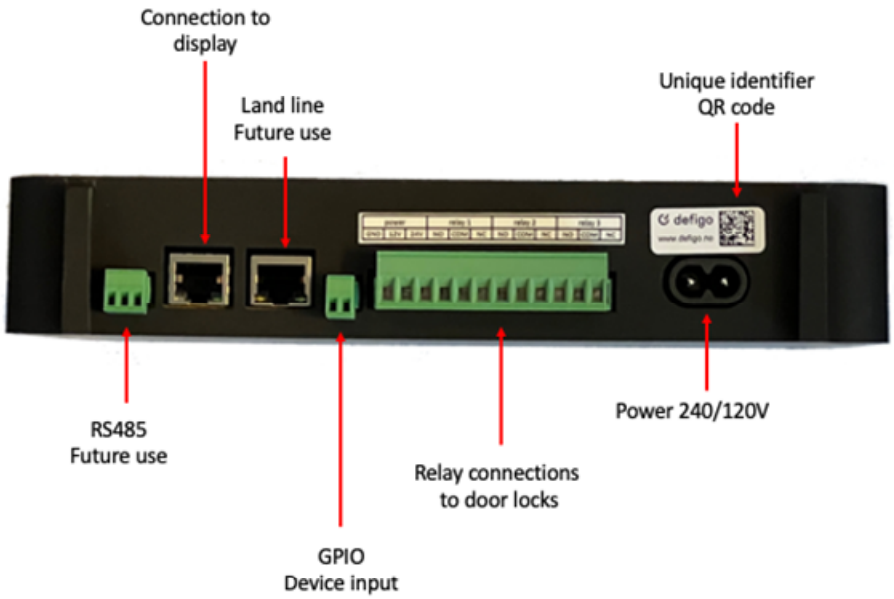
Other important factors you need to consider before installing the Defigo Display together with the Control unit:

- If the control unit powers a doorbell, the maximum CAT6 cable length between the control unit and the display is 50 meters.

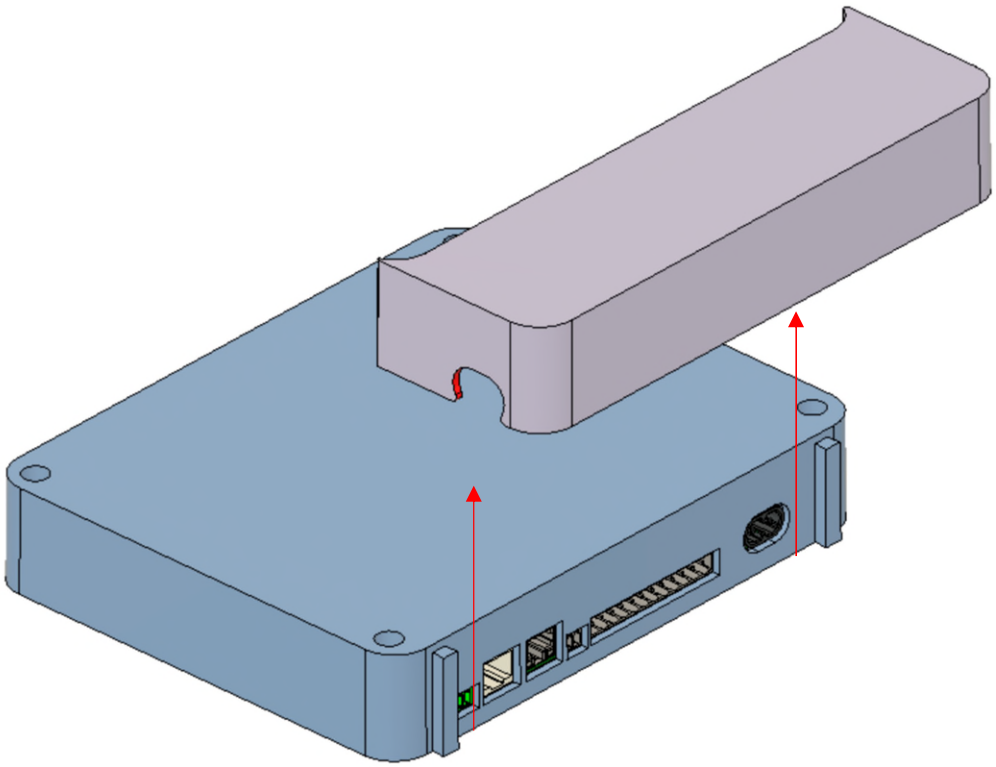
INSTALLATION PROCEDURE

Take the control unit out of the package. Make sure that it does not have any damage or scratches.

Control unit connector layout:

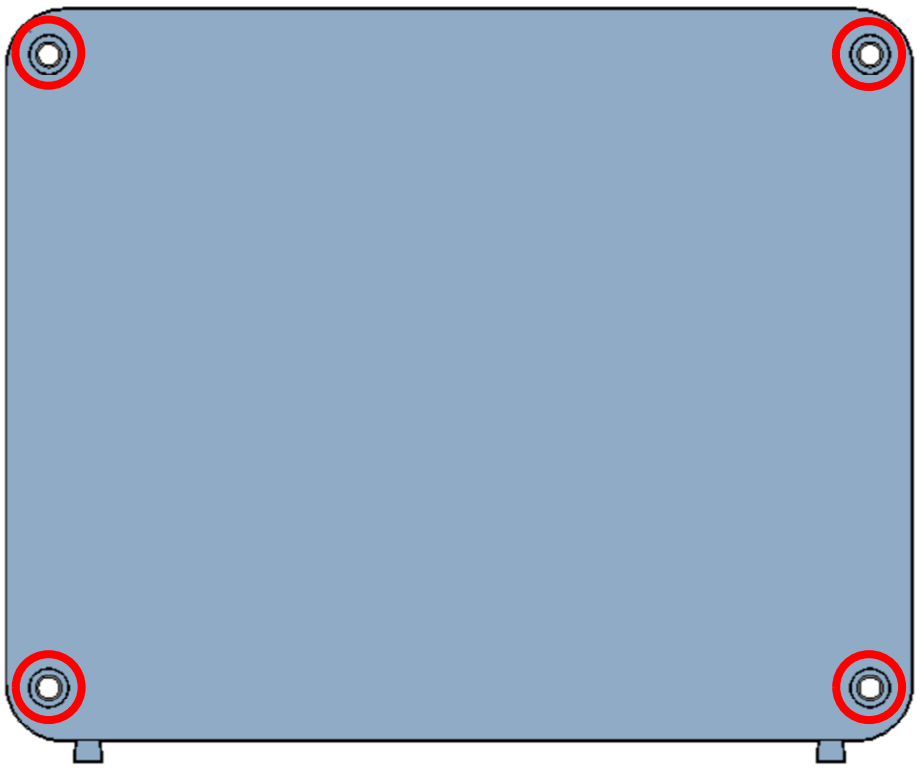


STEP 1



Remove the connector cover by sliding it off vertically.

STEP 2



Find the place where you want the control unit installed. The control unit is mounted using four screws, one in each corner.
NOTE: All screws are required.

Make sure to use the screws appropriate for the type of wall/ceiling you are installing the control unit to.

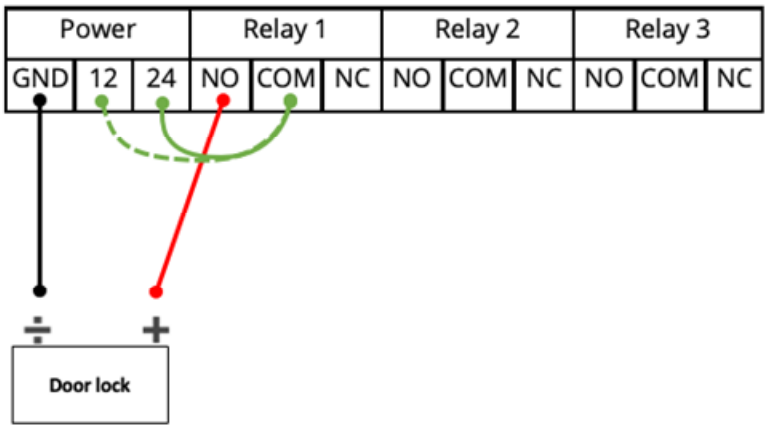
STEP 3

Now that the control unit is safely mounted you are ready to connect the relays to door locks or other devices.

You must choose whether you want to power the lock with current from the control unit, or if you just want to switch with a potential free signal. Follow step 3A or 3B depending on the options.

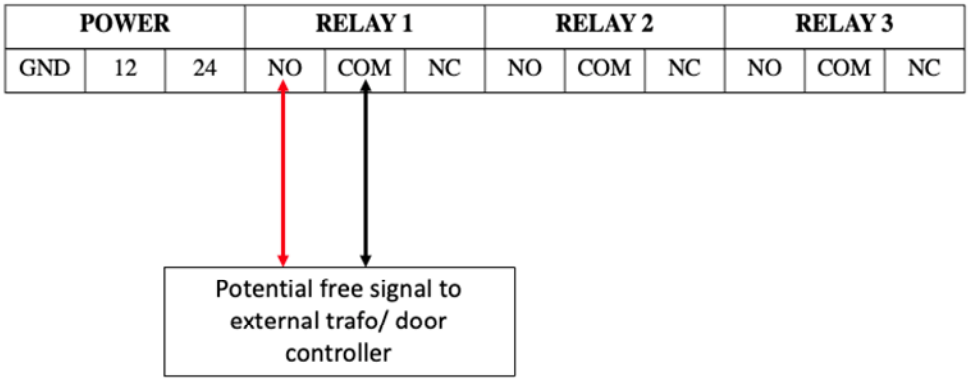
ATTENTION!
Never use the 12VDC and 24VDC outputs on the control unit to power a door strike meant for AC only. In this case a separate power supply is required. The relays can still be used to control the signal.

STEP 3A: Door locks powered by the control unit



- Connect a jumper cable between 24 or 12V power and COM
- Connect GND to the negative pole of the lock
- Connect NO to the positive pole of the lock (For a lock setup that is NC use the NC connector instead of NO)

STEP 3B: Switch lock with potential free signal



- Connect COM and NO to a Button input on 3rd party door control unit or to the terminals on an elbow switch or other switches.
- Connect the first door to relay 1, second door to relay 2 and third door to relay 3.

STEP 4

Connect the control unit to 240/120V power using the power cable provided in the package.

STEP 5

Login to the Defigo app on your phone. From your Home Screen you will find the doors for the Control unit named as provided to Defigo before installation. Press the door icon for the door you want to test.

NOTE!
Please allow 5 minutes to pass from powering on the device before attempting to open the door using the app.

For more information on using the app, see Defigo App user manual.

FCC

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 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.*

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device 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.

In order to comply with FFC RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

ISED

"This device 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.*

In order to comply with ISED RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

Afin de se conformer aux exigences d'exposition RF ISED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps.

CAN ICES-3 (B)/NMB-3(B)