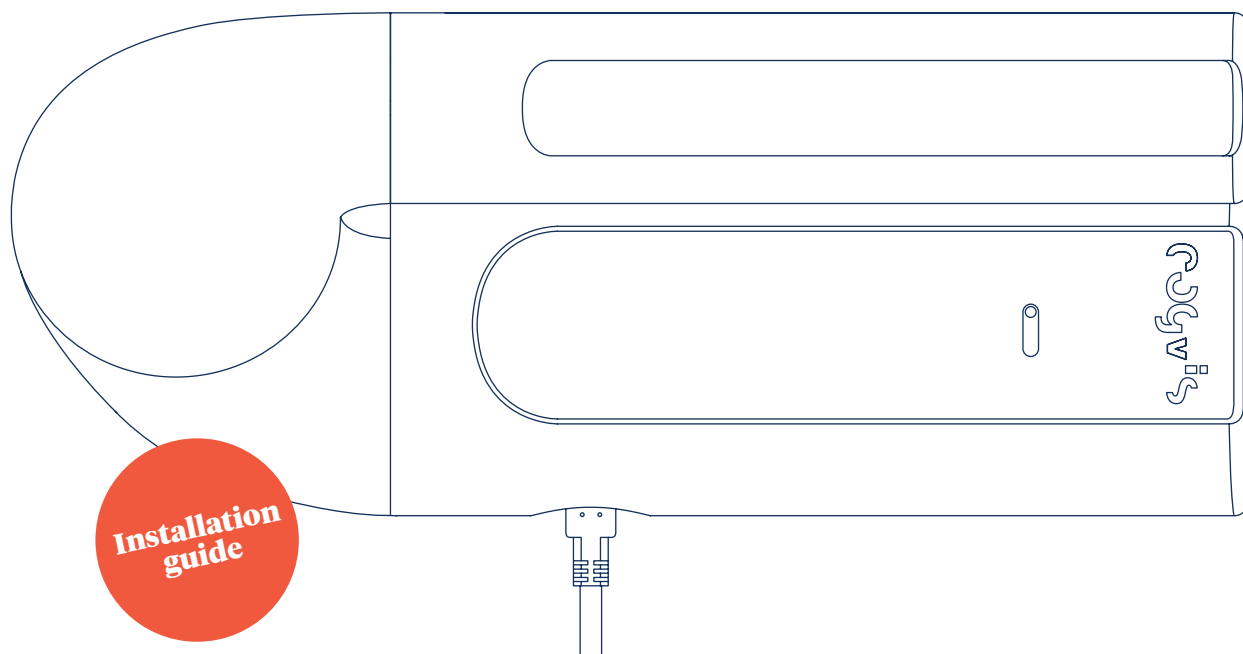


fearless



Welcome

fearless is the intelligent contactless fall sensor that not only detects falls, but also helps to avoid them. The system is designed for indoor operation, is as easy to install as a lamp and compatible with existing alarm and emergency call systems.

In the following installation instructions, we will guide you step by step through to the setup of the sensor. If you have any questions, please contact us at **+43 1 236 058 0** or **fearless@cogvis.at**.

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1. General information

Essentially, fearless consists of two system components: the 3D sensor and the fearless platform. The sensor processes all 3D data directly in real time and in case of an incident alarms are forwarded to the platform or the nurse call system.

The fearless platform performs the following functions:

- Automatic monitoring of all systems
- User administration
- Alarm forwarding (except for radio modules or use of fearless API)

For the use of the platform please find more information in the fearless platform manual. You can find it on the web platform at <https://web.fearless-system.com>.

Note the following

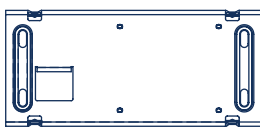
- Please make sure that you have a good WiFi coverage in the room before installation.
- Please make sure that your WiFi connection can be established directly by entering the WiFi name and password and no login via an additional login form is required.
- Keep your login data ready for the fearless platform and make sure, a smartphone or laptop is available.
- In addition, never put the sensor into operation when it is not mounted.

2. Package contents and preparation

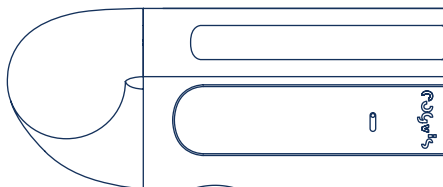
Package contents for the fearless system for on-site installation:

- USB power supply and 5 m connection cable
- fearless sensor
- 4 dowels and 4 screws

The **fearless sensor consists of 2 parts**: the **metal base part** with the already mounted board (evaluation unit) and the **white plastic sensor housing**.

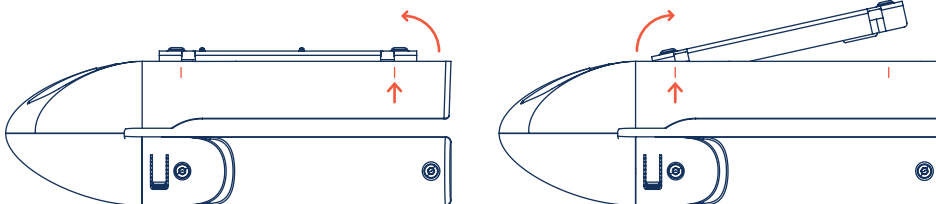


Metal base part



Plastic sensor housing

The sensor housing is connected to the base unit through 4 clamps. Both parts can be released from each other by slight pressure from the outside (along the lower edge of the sensor unit in the area of the clamps). Please note the following illustration:

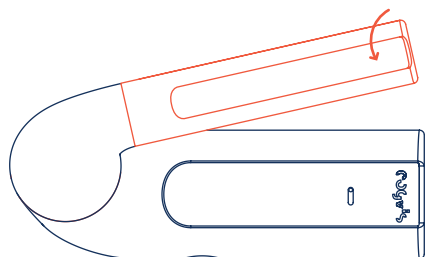


Step 1: Press on both sides of the outer edge of the unit in the area of the clamps and gently push the base out on one side.

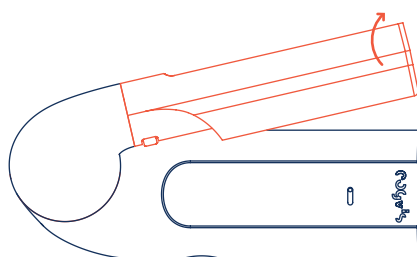
Step 2: If the first side is released, apply the same principle to the second side and remove the base completely from the housing.

3. Positioning of the system

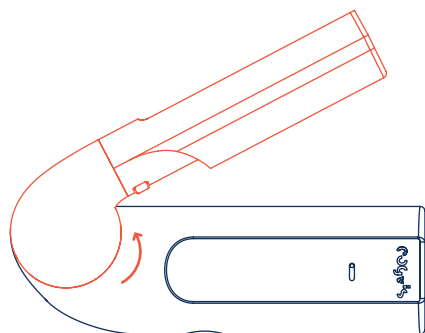
At the beginning of the installation, you need to find the correct position for your 3D sensor in the room. Please note that the sensor can be easily adjusted in two directions by turning it carefully.



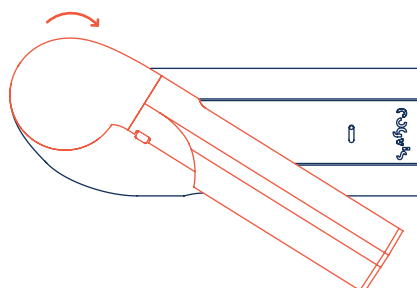
The sensor can be adjusted accordingly by carefully turning the front panel.



The front part can be turned in both directions.



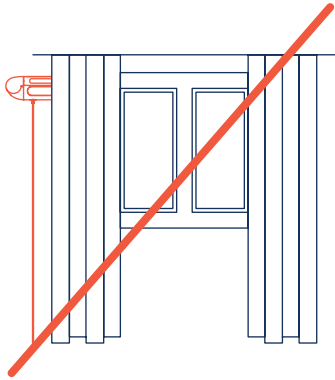
To rotate the entire sensor part, gently pull it out of its anchorage, turn it to the correct position and release it again until it clicks into place.



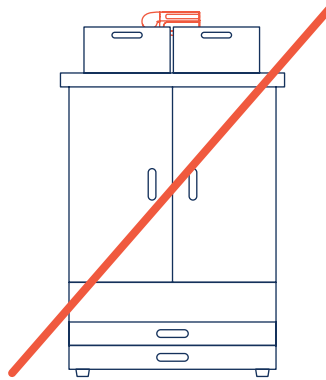
The entire sensor part can also be turned in both directions.

Identify the main area that should be covered. This is the free area with a particularly high risk of falling. The sensor can be mounted **on the wall or on the ceiling**. We recommend mounting the sensor on the ceiling, as the sensor orientation is more flexible.

Please make sure that the sensor is **not covered by objects** (e.g. curtains, lampshades, boxes in front of the bed etc.) and has a maximum range of approx. 7 meters. If possible, the sensor should be placed on the opposite side of the windows.



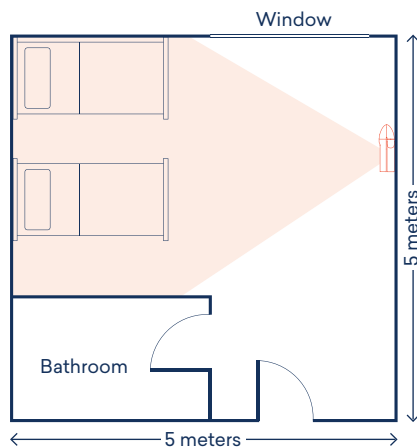
Make sure that you do NOT cover the 3D sensor with the curtain.



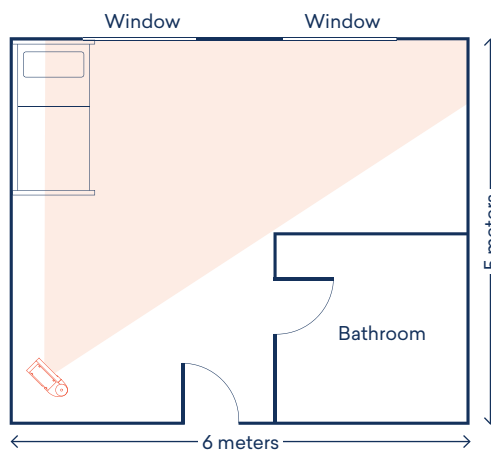
Make sure that you do NOT mount the 3D sensor above a cabinet in such a way that the visibility of the sensor is restricted.

Sample illustrations for the sensor position

Sample illustrations for the sensor position. The following example rooms will help you to find the correct sensor position. The color-coded area represents the area that the sensor covers approximately.



This illustration shows a room where wall or ceiling mounting is possible. The sensor is adjusted so that both beds and the surrounding areas are in sight.



The second illustration shows a room in which ceiling mounting is preferred. In this case, the greatest possible coverage is guaranteed.

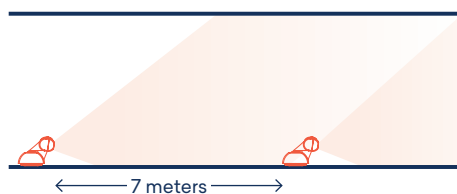
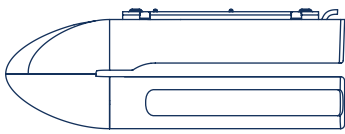


Illustration 3 shows an elongated room, such as a corridor. In this case, the sensor should be mounted vertically on the wall.

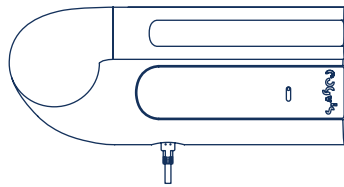
4. Mounting

Make sure the sensor is not covered by curtains, plants, lampshades, boxes, etc.
For wall mounting, the sensor has to be positioned and aligned horizontally in order to enable automatic calibration.

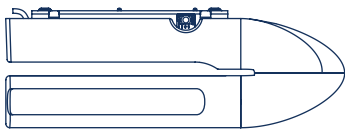
The following wall mounting positions are possible:



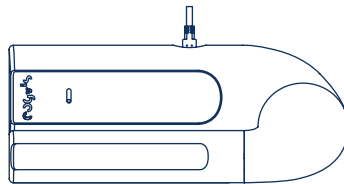
a) Standard ceiling mounting



b) Standard wall mounting

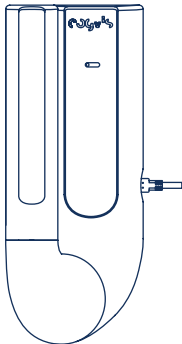


c) Ceiling mounting 180-degree rotation (if required)



d) Wall mounting 180-degree rotation (if necessary)

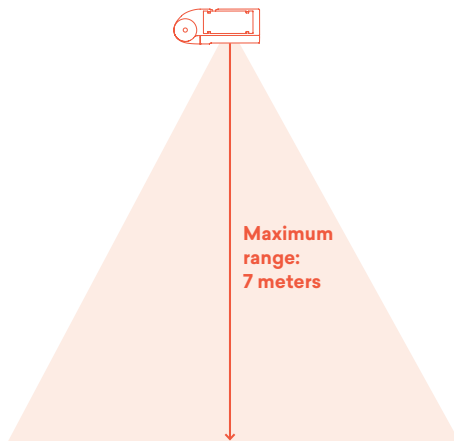
Please note that in this case you must also adjust the image „Initialization started“ online on the platform under the view „Sensor“ accordingly! Otherwise there will be problems during calibration (see page 11).



e) 90-degree rotation (if necessary)

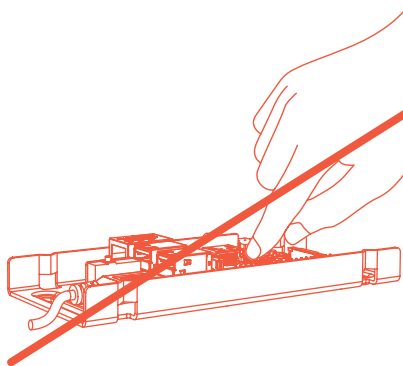
Please note that you have to adjust the view under „Initialization started“ accordingly!

The sensor should be mounted at a height of approx. 2.5 meters (wall mounting) in the middle of the wall. Ceiling mounting is recommended for room heights up to approx. 3 meters. The sensor can be positioned either in the middle or in the corner. The sensor should point to the area in front of the bed. In the best case, the sensor is positioned opposite the windows.

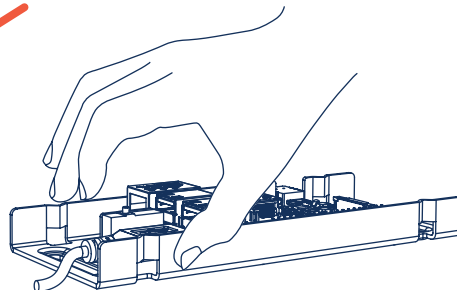


Please note that the sensor has a maximum range of 7 meters.

When mounting, please use the four included dowels and screws. Never touch the board, only the metal plate.

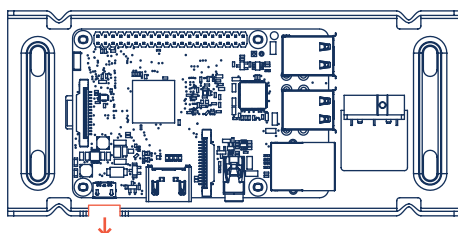


Never touch the board!



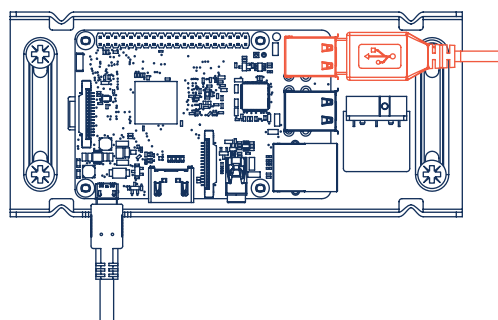
Only touch the metal plate!

Note that the cut-out for power supply (Micro-USB) looks towards the electrical socket (usually downwards).



cut-out for socket outlet

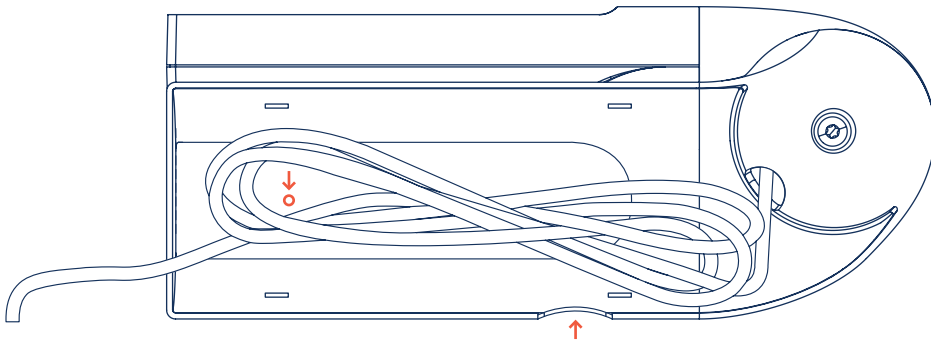
Once you have mounted the metal plate on the wall, plug the USB cable into one of the two exposed USB openings on the board.



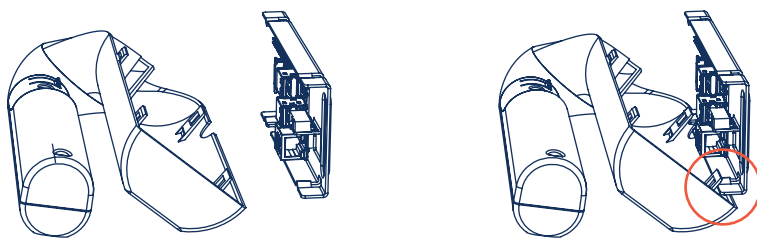
exposed USB ports

Now carefully stow the cable in the housing. Make sure that the **push-button (on the inside of the housing) is free** (not covered by the black cable).

Also make sure that you close the housing in such a way that the **power connection** of the board is at the **corresponding opening of the housing**.

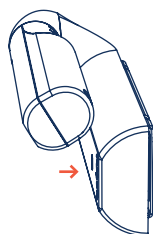


Now mount the housing onto the metal plate as follows:



Step 1:
Place the housing from bottom to top. Make sure that the metal plate is outside the clamp of the housing.

Step 2:
Hook the clamps from the housing to the metal plate. Press the casing together to connect it to the metal plate at the top edge.

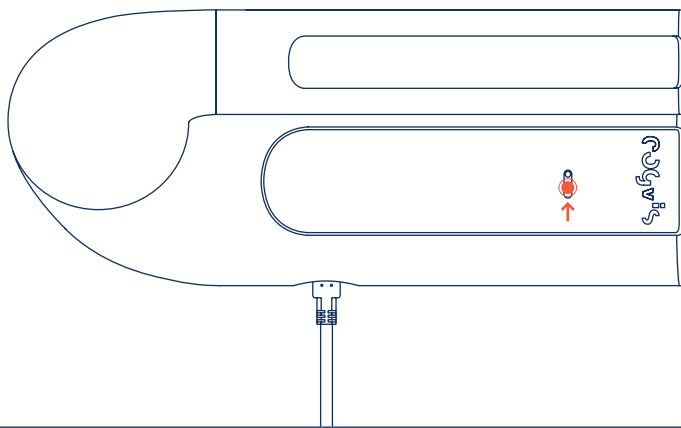


Step 3:
Now press the housing onto the metal plate until it clicks into place.

Now continue with software setup.

5. Software setup

After you have mounted and aligned your fearless device at the appropriate position, you can start with the software setup. Make sure to configure **no more than 1 device at the same time**, the housing is **already mounted on the wall** and the **sensor is roughly aligned**. Please have the serial number of your device (to be found on the underside of the packaging) ready for further steps. If problems occur during setup, please press the button on the upper side of the white housing for approx. 8 seconds (see illustration) and then restart the setup procedure.



Setup problems: Press the button for 8 seconds.

Step 1: Start setup

Start the device by connecting the power cable and the power supply to the power outlet.

Now activate the WiFi of your smartphone or laptop and connect to the corresponding WiFi network: **fearlessAP-XXXXXXXX**. (it can take up to 2 minutes to display the corresponding network) The last 6 characters are different from device to device. The password is **fearless**.

Newer versions of Android devices require explicit confirmation that you want to connect to a WiFi without an Internet connection. Please confirm this query to keep the network.

Step 2: WiFi setup

Open the following URL in your web browser (Chrome, Internet Explorer, etc.):

<http://fearless.setup> or **<http://192.168.8.1>**

If it is not possible to access the web browser, please try connecting to the WiFi again. Then click on „**Select network**“, select your network and enter the appropriate WiFi password. If your wireless network is not visible/selectable, the signal is too weak to guarantee reliable data transmission. In this case, please use a WiFi amplifier.

Now enter the serial number of your device. These can be found on the bottom of the packaging (S/N: XX-XX-XX-XX-XX). Please wait 2-3 minutes and then check the status of your device.

If there are any problems, make sure that you have entered your WiFi password correctly and start again with step 1.

Note:

To connect your fearless system to a new WLAN, press the button on the housing for 1-3 seconds. Then, as described in step 1, search for the appropriate wireless network and repeat the following steps.

Step 3: Check status

Now please check the status of your device. To do so, click on „**Check status**“ or enter the following address in your web browser: <https://web.fearless-system.com>

If the device is not „online“ after 5 minutes, please set up the device again, starting with step 1.

Explanation of the status on the platform:

Initializing: The device is preparing for start-up.

Active: Sensor is in operation.

Inactive: Operation was stopped / fall detection paused.

Online: Device is connected to the Internet.

Offline: Device is not connected to the Internet or the power supply.

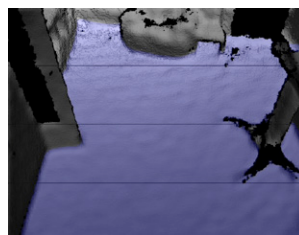
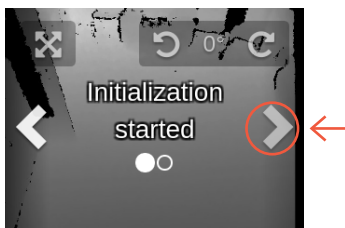
Calibration error: The ground floor cannot be detected by the sensor. Please check the position and orientation of the sensor.

Visibility error: The visibility of the sensor is limited. Please make sure that the view of the sensor is not occluded by objects. (see page 5)

Sensor error/unexpected error: Please contact the cogvis support team (+43 1 236 058 0 or support@cogvis.at).

Step 4: Alignment and Calibration

Calibration is automatic. To display the calibration view, click on the right arrow in the „Initialization started“ image view. The floor is displayed as a blue area. If problems occur, check the position of the sensor, realign it if necessary and click on „Restart“ on the platform. Now check the image according to step 4.



Calibration visualization

fearless Sensor

Sensor Events Logs Status Config

S/N: 95-09-76-37 Restart Test Alert


Name: fearless Sensor

Description:

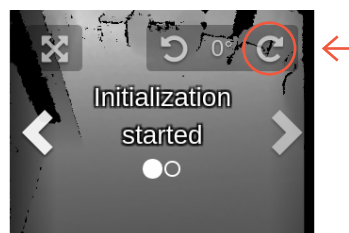
Unit: CogVis GmbH / 0-mgmt / Testdevices intern

Area: Living room

Alarm Sensitivity: low

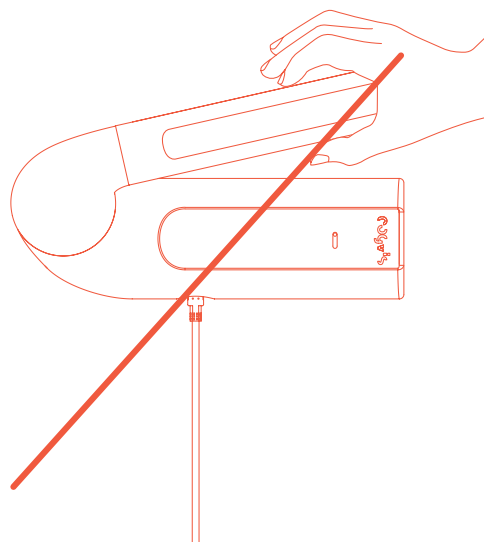


Change of the sensor image on the platform, if necessary, under „Initialization started“ (see page 6)



Step 5: Operation

If the setup and calibration were successful, **the position of the sensor should NOT be changed** any more. If a change of position is necessary, realign the sensor, then click on „Restart“ on the platform and check the calibration/image view according to step 4.



6. Connection to existing call systems

This step becomes interesting for you if you want to connect to an existing alarm or emergency call system. The integration into the call system is very uncomplicated: fearless works with a radio-based solution from ELDAT, the transmitter is already directly integrated into the fearless system. The RCL07 module is required as receiver (<http://eldat-en.fearless-system.com>). If you already have some in use, fearless can be connected directly to them. If you require appropriate modules incl. connection cable, you are welcome to order them from us.

To connect the system to the existing call system, please consider the following brief instructions:

- 1.) Trigger a test alarm on the fearless platform. To facilitate pairing, several test alarms are now sent within 30 seconds.
- 2.) Briefly (< 1.6 seconds) press the programming button R. The receiver is now ready to learn, the LED of the corresponding channel flashes.
- 3.) As soon as the pairing is successful and the system is ready for use, the LED lights up briefly.
- 4.) If you want to test the functionality, you can trigger further test alarms at any time.

We wish you much joy with fearless!



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