Datasheet

CALYPSO-II-R

Interlinkable smoke alarm device

PRESENTATION

Calypso-II-R is a home smoke detector with integrated radio link.

Conceived for individual houses and flats, Calypso-II-R detects smokes coming from incipient fires and alerts you by a strong alarm signal.

Please read the following pages to commission and install Calypso-II-R.

CAUTION: CALYPSO-II-R does not detect heat, gaz or flames.

We inform you that this device doesn't emit electric radio wave except for its alarm signal and its pairing process.

Thank you for choosing this product.

GENERAL CHARACTERISTICS

supply:	lithium battery (non replaceable)
autonomy:	10 years
smoke detection:	by light diffusion
sound power:	85dB at 9' and 10''
battery:	light and sound signal in case of default
battery test frequency	automatic, about every 50 seconds
mounting:	screws and rawplugs supplied for unperforated material

protection against false alarm:

- protection grid against insects
- with algorithm handled by micro-controller

functional check:	test button

Radio interconnection

frequency	868 Mhz
range	100 meters in free field condition

Number of detectors per radio group: up to 10 items

Comply with § 4.1, § 4.2.1, § 4.3 (except 4.3.1 and 4.3.2) and § 4.4 of the EN 50 13 1-5-3 standard. Level 1

PHYSICAL CHARACTERISTICS

operating temperature	0° to 55°
environment:	indoor
dimensions	H 61 mm x dia 110 mm
weight	162 g

white ABS

Certification

NF EN 14604

Certificate number

0333 CPD 292047

INSTALLATION ADVICE

Minimum installation

One detector on each floor (in the corridor and stairs).

Note: install detector(s) in priority in bedroom(s) access zone(s) because risks of smoke inhalation are more important while sleeping.

Recommended installation

One detector in each room.

In rooms where false alarms can frequently occur (garage, kitchen…) see Implementation precaution.

Avoid installing detectors in the bathroom.

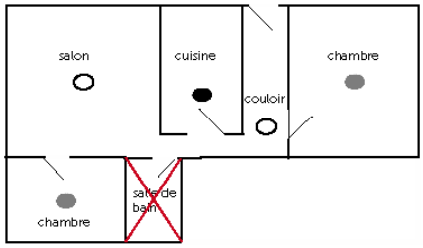
Examples

◯ minimal protection advice

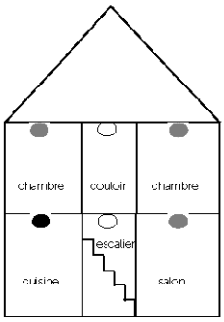
● optimal protection

● implementation precaution

Flat



House

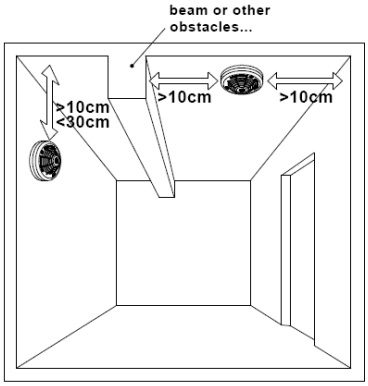


To install a detector in the garage or the kitchen, please see Implementation precaution.

INSTALLATION ON THE CEILING OR ON THE WALL

Example

Respect the minimal distances indicated below.



Long corridor

In more than 10 meters corridors, install at least 2 detectors. Spread the detectors as regularly as possible, prefering the bedroom(s) and stairs access zone(s).

IMPLEMENTATION PRECAUTION

Disturbing phenomena

- Condensation (laundry).
- Water vapour in bathroom. Installing a detector in this room is banned because of the high risk of false alarms.
- Smoke dilution in ventilated systems (air conditioning, heater, windows, others,etc).
- Dust in attics, roofs, workshops, others,etc.
- Abnormally low (-0°C) or high (+55°C) room temperature.
- Device generating smoke (cooktop, oven, car exhaust fumes, etc). Be sure of the room ventilation.
- Car exhaust fumes (in garages): high risk of false alarms.

Kitchen implementation

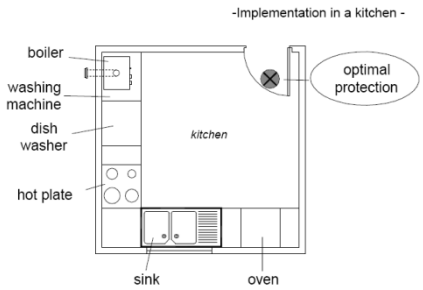
We don't advice you to install a detector in a kitchen because of the high risk of false alarms and of a rapid clogging of the detector.

Respect a minimum distance of 2 meters (for a minimum 9m² surface) from any device generating smoke or vapour.

Below 9m², installing a detector in the kitchen is banned.

Use the neutralization device whenever you use a device generating smoke or vapour.

Example



INSTALL AND COMMISSION ONE DETECTOR

Necessary tools and pre-requisite

Drilling machine, bit 4mm, screws and rawplugs (included)

Having read the informations in this document.

Mounting instructions

Caution : we advise you to use suitable expansion anchors to fix the detector on an unperforated material.

If you install several detectors, check the radio link quality before mounting it (for more details see Radio configuration).

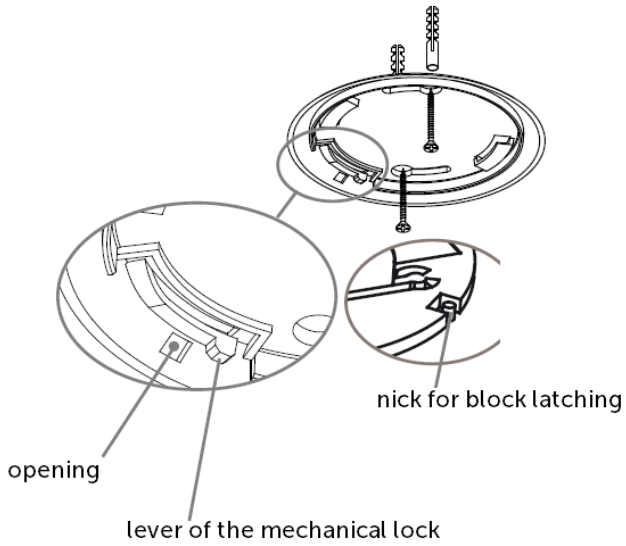
1. Place the base on the ceiling in the covered radio zone.
2. Adjust the position of the base so that the test button can be visible and attainable.
3. Locate the position of the two holes.
4. Drill and position the rawplugs in the holes.
5. Fix the base using the two screws.

Anti-theft device

The integrated anti-theft device is made to avoid thefts (in group housing for ex).

Break the 2 nicks (see location below), the detector can be locked and blocked.

If needed, you can activate the lever of the mechanical lock situated through the opening on the base (see below).

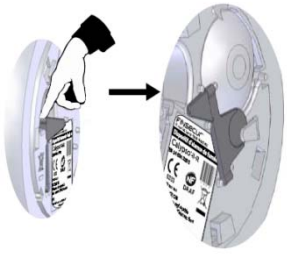


Commissioning the battery

You can use the tab to disconnect the internal battery.

1. Remove the tab by pulling it (towards you). After 20 seconds, the detector is commissioned (see below on the left).
2. Put the key away in the location space provided (see below on the right).

At the end-of-life of the detector, you can disconnect the battery using the tab to stop the default sound signal and avoid any electric risk when recycling (see Closure of the detector).



Mounting the detector

1. Present the detector on its base.
2. Turn clockwise until it's locked. If the test button isn't adjusted towards the entrance of the room, you can unlock it (anti-clockwise) to make it do half a spin.
3. Push the test button to check its functionning.

INTERCONNECTION OF THE DETECTORS

Mouting and commissioning several additional detectors

The detector is equipped with a radio interface that ensure the alarm diffusion towards the other paired detectors.

Every alarm is transmitted to the linked detectors.

Pairing a new detector

To pair a new detector, follow the steps below.

Paired detectors are registered even when they're out of service.

1. Apply power to the detector by removing the tab. It emits 5 beeps.
2. Within 20 seconds, push the test button during the initialization phase to reach pairing mode. One beep can be heard.
3. The test button flashes blue (1 flash every 2 sec) and the detector waits for pairing. (automatic exit after 15 minutes, signaled by a 2 tones sound signal. If it's not the case, put back the tab , wait 30 sec and start again from n°1).
4. Push the test button of an already installed detector. A long beep can be heard, the blue light turns on stealthily to send the code for radio identification.

Checking the quality of the radio reception

The detector is equipped with a device to check the quality of the radio reception. You can check if the chosen location allows to interconnect the detectors.

Signalling	Interpretation of the quality of the radio signal
1 beep/ 2 sec	Unsufficient or null level (too many obstacles are close to the nearest detector)
2 beeps/ 2 sec	Low level, we advise you not to install the detector, try to place it elsewhere
3 beeps/ 2 sec	Satisfactory level, the installation is possible
4 beeps/ 2 sec	Correct level, the installation is possible
5 beeps/ 2 sec	Maximum level, no problem in installation

Location in progress

5. You can go to the chosen location for the detector. Series of beeps can be heard (see table above).
6. Press the test button to valid the location of the detector. A series of rapid beeps can be heard and the blue indicator rapidly flashes for a few moment to indicate that the pairing is successful.
7. Fix the base.
8. Mount the detector (turn clockwise until it's locked).
9. To check the pairing, press the test button of the newly installed detector. The blue light turns on and the alarm signal is activated. Then the other detectors activate their alarm signals and their red indicators.

Repeat this procedure (step 1 to 9) to pair each new detector.

You can pair a new detector with any detector already installed.

NEUTRALIZATION DEVICE

The detector is equipped with a feature allowing the neutralization of the alarm signal when

- the origin of the smoke has been identified,
- there is a possible presence of smoke (in preventive).

Example: smoke coming from a toaster, a fryer, a cigarette or an activity in a workshop.

The neutralization is automatically disactivated after 10 minutes. The detector comes back to its normal functionning.

This allows you to ventilate the room without hearing the alarm signal and stopping each alarm on each detector.

In case you have several linked detectors, only the neutralized detector is concerned by this feature.

Neutralization in presence of smoke	**1 -** Presence of smoke: 1 red flash every 1 sec + alarm signal	**2 -** Press the test button, the alarm signal stops as well as the paired detectors.	**3 -** Neutralization is activated for 10 minutes: 1 ref flash every 7 sec (if presence of smoke: 1 flash every 2 sec).
Neutralization before the presence of smoke	**1 -** Before the presence of smoke: detector in standby position + 1 red flash every 50 sec	**2 -** Press the test button for 2 sec. After the test sound signal, 3 short beeps can be heard. This confirm the neutralization.	

Put a neutralized detector back in commissioning

You can cancel the neutralization before the 10 minutes.

1. Neutralized detector: 1 red flash every 7 sec in presence of smoke.
2. Press the test button: 2 short beeps indicates that the neutralization has been taken into account.
3. Detector is back to standby position: 1 red flash every 50 sec.

POSTPONE THE BATTERY DEFAULT

Functionning

In case of battery default, the detector emits 1 bip about every 50 sec. This signal can be temporarily postponed.

How to postpone a battery default?

Signaled battery defect: 1 long beep + 1 red flash about every 50 sec.

Press the test button. 3 beeps confirm the postponing of the battery defect for about 12 hours.

12 hours later: 1 long beep + 1 red flash every 50 sec. or so. Battery defect signaled again.

CLOSURE OF THE DETECTOR

Temporary or for disposal

1. Took the tab from its storage.
2. Insert the tab between the top-end of the battery and the metal part.
3. Push the test button to check the closure of the detector.

For the disposal (of the detector), put the detector in a reprocessing collection site.

AID ASSISTANCE

Identification of sound signals

Sound signals	Interpretation
5 short and rapid beeps	Powering
3 short and rapid beeps	Pairing
1 short beep/ 1 sec	Level of detected smoke is reaching the level of alarm signal
2 successive short beeps	Acknowledgement of an event (exit of the neutralization mode)
3 successive short beeps	Acknowledgement of an event (activation of the neutralization mode)
1 to 5 beeps/ 2 sec	Localisation mode (radio link quality)

Identification of light signals

Light signals	Interpretation
1 red flash/ 1 sec	Detector in alarm (local or from a paired detector)
1 red flash/ 7 sec	Activation of the neutralization device
Blue flash	Emission of a radio signal
Blue light flashes (2 sec)	Pairing in process (exit after 15 min, a sound signal can be heard, the blue light is activated for a few seconds and then turns off).
1 red flash/ 50 sec	Normal functionning

Identification of light and sound signals

1 red flash + 1 long beep/ 50 sec > battery default (main power supply, see instructions above).

TEST

With the test button

We recommended to test the functionning of the detector once a week.

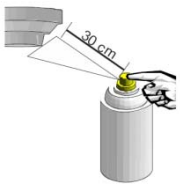
Briefly push the test button (less than 2 sec). The test button flashes red and emits a sound signal. The other paired detectors activate their sound signals.

Use this test as a chance to acquaint your children with the alarm signal and to explain them what to do if a fire occurs in your house (see What to do in case of fire?)

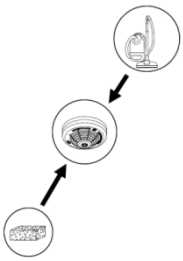
With a test aerosol

Optional

Once to twice a year, it is possible to test the detector with a test aerosol.



MAINTENANCE



Clean the dust of the detector head with a vacuum cleaner or an antistatic rag.

Clean the wole detector with a sponge or a softly damp rag.

You must keep the detector in a clean atmosphere (without dust accumulation, spider webs, etc) so that the smoke can go inside the detector.

You must not paint the detector.

WHAT TO DO IN CASE OF FIRE?

As soon as the fire is detected, keep calm.

Evacuate the area as rapidly as possible. If not possible, find a safe place with no smoke and lie on the floor to breathe.

Call 112.

CERTIFICATIONS

CE marking

The CE marking affixed on this product attests that it is in conformity with the essential requirements of the applicable directives, in particular its compliance to the harmonised specifications of NF EN 14604 standard, with regards to the 89/106/CEE directive relative to construction products.

NF mark

The NF mark affixed on this product guarantees constant safety and quality controlled by specialists.

With its strict and exhaustive controls (owner quality management system, manufacturing controls, audit, monitoring tests,…) it brings the consumer all guarantees of compliance to certified products.

The NF-DAAF mark complies with the certification rules NF292.

CONTACT

Mail xxx@xxx.com

Helpline xxx xxx xxx

Keep this datasheet during the whole product lifetime.

WARRANTY CONDITIONS

This product is guaranteed 5 years, except the battery, for a residential use and implies a regular maintenance.

See our general warranty conditions.

RECYCLING