



Help without touching a button

Contactless fall detection

Smart multi-sensor

Integrated hands-free system

Only an independent fall detector can bridge the gap

Conventional emergency call systems only make sense if their correct and active operation can be ensured and is possible. But that's not always the case because the person involved may be confused, have dementia or even be unconscious. And besides this, most falls happen at night on the way to the toilet when the emergency button is most often on the bedside table so that help is out of reach. In contrast, an active emergency call system, one that can recognise a fall or critical situation itself, can trigger an alarm even in these cases. Grannyguard



immediately sends an SMS to a previously arranged helper such as a relative or caregiver, and then telephones them without delay – and it's your decision exactly who should be contacted and in which order.

Fall prevention through practical lighting control

Grannyguard even tries to prevent falls happening in the first place. If movement is detected at night, soft, integrated floor lighting is activated which illuminates the floor without any glare. Ceiling lights can of course be turned on automatically too, e.g. in the bathroom.

Recognition of inactivity

Many critical situations begin or end in a fall – but not all of them. You can feel safe even in these situations because Grannyguard can be individually programmed to detect inactivity within set time frames. The light switch can still be used manually as a daily button.



Harmful indoor environment

Aside from room temperature being comfortable, the entire indoor environment plays an important role for the health of the resident. If humidity is too high, mould may develop. If it is too low, mucous membranes may dry out leading to lung damage. For this reason, integrated sensors measure temperature and humidity levels and if required, Grannyguard can also indicate when ventilation is needed with an air quality sensor (VOC Sensor).

No controls necessary

You don't need to operate Grannyguard. It works day and night – in light as in the dark - independently in the background. Absolutely no interaction is necessary once it's been configured.

Installation and alarms

Electronic assistance (AAL) systems in care homes / Smart home care

Staffing in retirement and care homes is often critical and because of this, the care sector is increasingly using electronic systems. This is not to reduce visits to those in need of support or their care and communication, rather, to immediately alert carers of an emergency and also give an overview of the current situation of those in their care. Grannyguard focuses on the independent detection of emergencies when call equipment such as handheld buttons can no longer be activated.



Multiple installation options

Grannyguard was designed for the most discreet operation possible to avoid any kind of stigmatisation. The device was therefore developed to substitute a common light switch and as a result, an existing standard flush-mounted switch socket is all you need. Troublesome, loud and dirty work with drills and chisels isn't necessary. Grannyguard can also be installed on a surface-mounted base..

Installation & management

Grannyguard can be configured either wirelessly and direct with a WiFi-enabled device such as a smartphone, tablet or laptop or through a central platform. This process normally takes no more than 5 minutes. The central platform also offers a convenient overview of multiple devices and ensures that faults are detected immediately.

Multiple alarm options 'Stand Alone'

Notification via GSM (mobile communication) configurable for up to 5 users at a time

- SMS (text message)
- Voice call with the integrated hands-free system (SIM card, loudspeaker and microphone)

Link to call systems and other facilities

Messages via GSM (mobile communication) or WiFi

- UMO platform (Verklizan)
- escos Copilot

Connection to call systems by VDE 0834 via integrated relays

Connection to other systems, e.g. via IP/MQTT, is possible.

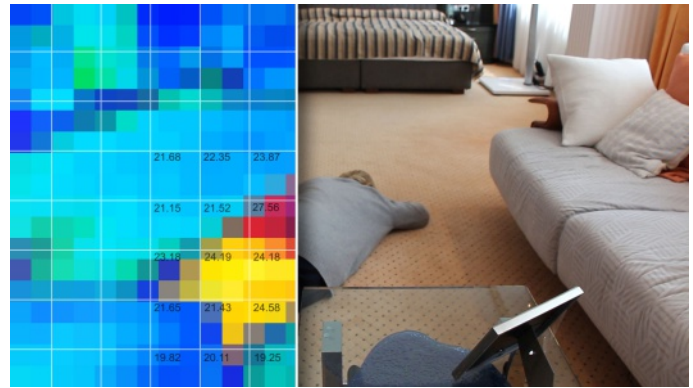
Connection via Power over Ethernet (PoE, IEE802.3af) is possible.

Further alert mechanisms such as email, VoIP telephone systems and home emergency alarms (869 MHz radio frequency) are currently in development.

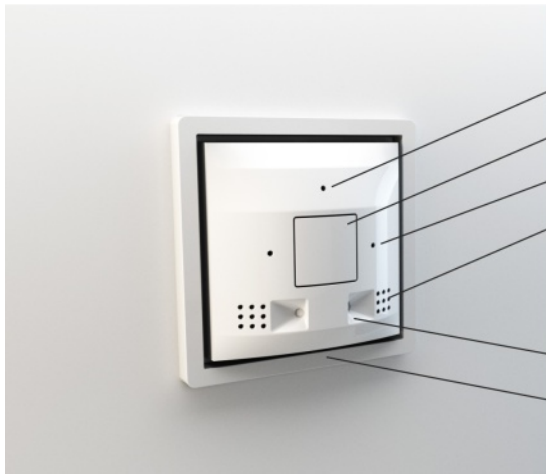
The sensor principle – your peace of mind

The right to privacy, data protection and security

The protection of privacy, the privacy of the home and the confidentiality of communications are all legally binding and naturally apply to everyone. Because of this, Grannyguard does not use a camera rather it only records temperatures around the room. With a typical range of 5m and an opening angle of approx. 170°, Grannyguard can cover an entire living space. Gestures and body parts are not recognised and the sensor data is analysed within the device. Grannyguard works completely independently and offline during normal operation meaning that all radio modules are turned off. In this way, the device is as vulnerable to attack as a light switch – not at all. Personal data never leaves the device.



Technical specifications



RGB-LED
Pushbutton
Microphone (3x)
Speaker (2x)
IR Sensor (2x)
Floor Illumination

GSM / 2G

900 MHz / 1.8 GHz, integrated antenna
Nano SIM / eSIM

Audio

2 loudspeakers
3 microphones for directional hearing

VDE 0834 connection

2 relays (changeover contacts)
- 1x device OK / malfunction
- 1x situation OK / alarm

Form factor and connection

Substitute for common light switch incl. 230V relay
Standard flush-fitting box (32mm) or on-wall mounting possible
Connections: L, L', N, on/off switch or push-button operation

WiFi

2.4 GHz, integrated antenna

Power supply options

230V AC
5-36V DC external
IEEE802.3af Power over Ethernet



Awards and contact



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Excellence in Product Design (Medical)



Winner 2018, Category innovative & digital

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