Active Assisted Living

AAL Homecare by lehmann electronic

The AAL Profiline® Catalogue

Innovations for independence

FOR ALL PEOPLE WITH DISABILITIES, THEIR FAMILIES AND THEIR SOCIAL ENVIRONMENT

Areas of Application

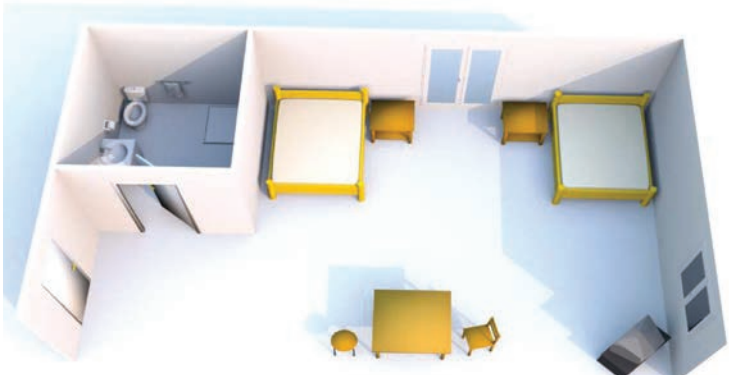
Large momentary call switch

Wristband and pendant transmitters

Contact mat

Emergency call pad

Door guard

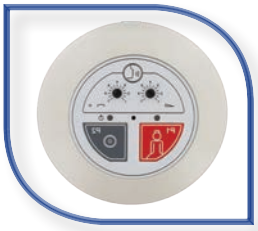


Respiratory sensor

Wireless momentary pull and call switch

Wireless respirator sensor

- Momentary call switch
- Cancel button
- Functional momentary switch



Noise detector

VarioCall *Connect* ®
Mobile home emergency call system

Mobile emergency call receiver

Emergency phone with radio actuation

Alarm receiver

Wireless socket

Wireless Sensor Technology

Frequencies

In the European Union, the frequency 869 MHz is reserved for social alarm. Therefore all wireless articles in this catalogue are built in this frequency.

AAL Homecare can also deliver all wireless products in 433 MHz frequencies if for example in other countries military or state departments reserve the 869 MHz frequencies.

Information on radio technology 4
Performance characteristics of radio receivers 6
Possible transmitter variations 7

GPS AND MOBILE PHONE TECHNOLOGY

VarioCall® 8

AAL *PROFILINE* RADIO RECEIVERS

Alarm receiver / wireless socket 10 / 11
Mobil emergency call receiver 12
Radio receiver set variants 13
Emergency phone 14

MOBILE HOME EMERGENCY CALL SYSTEM
VarioCall Home@*Connect* ®

VarioCall *Connect* ® 16

AAL PROFILINE SAFEGUARD TRANSMITTERS AGAINST ELOPEMENT

VarioCare wireless motion sensor 18
VarioCare remote (wireless remote control) 20
VarioCare switch (foot pushbutton) 21
Door guard (safeguard against elopement) 22
Contact mat (alerts when someone gets out of bed or enters/leaves a room) 24

AAL *PROFILINE* TRANSMITTERS

Wristband and pendant transmitters 26
Emergency call pad / large momentary call switch 30 - 35
Respiratory sensor 36
VarioPull wireless momentary pull and call switch 38
Watertight wireless momentary pull switch 40
Wireless momentary call switch / cancel button / functional momentary switch 41
Wireless squeeze bulb-actuated momentary switch 42
Secure transmitter 43
Noise detector 44
Smoke detector 46

Information on radio technology

Finding Suitable Sites

The choice of the best-suited receiver site requires a careful planning and check of the relevant areas. However, certain reasons may exclude installation at the best-suited site. Please read the following section before installing a device.

Properties of Radio Waves

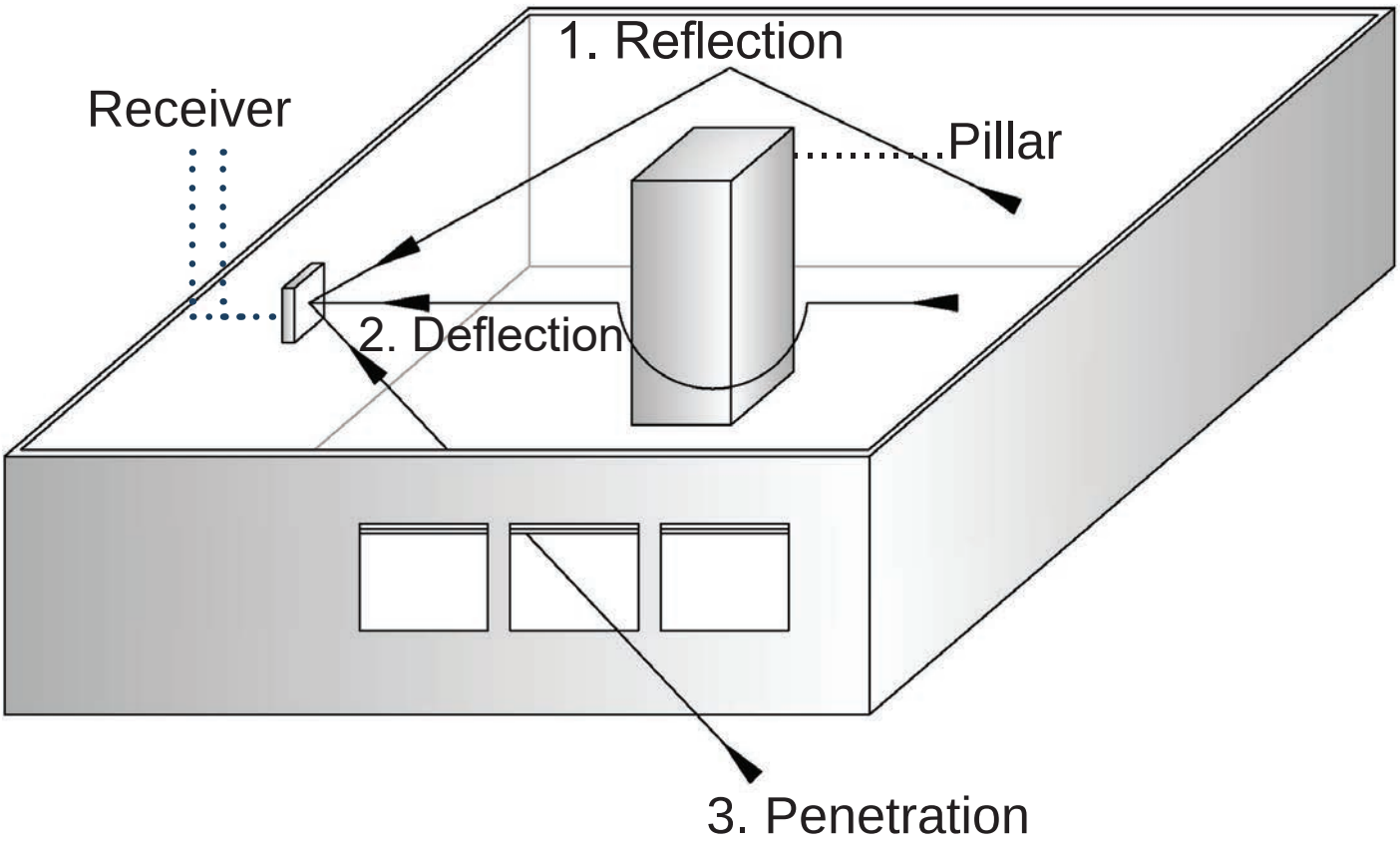
The propagation of radio waves and the transmitter range depend on the design of the building and the construction materials used. Office machines and entertainment devices such as computers, TV and fax devices may interfere with the transmission of radio waves. They may adversely affect the function of transmitters and receivers, for example, by noise or radio disturbance.

The figure below illustrates the transfer modes of radio waves.

1. Objects (e.g., of metal) reflect radio waves.

2. Objects (e.g., metal pillars) deflect radio waves.

3. Radio waves penetrate objects (e.g., glass).



Information on radio technology

Relationship between radio waves and construction type as well as material properties:

- The construction materials and the thickness thereof have stronger effects on the transmitter range than the number of obstacles.
- Radio waves tend to be reflected or deflected by electrically conductive objects and penetrate them only to a limited extent.
- Radio waves tend to penetrate electrically non-conductive objects and are reflected by such objects only to a limited extent.
- Radio waves penetrate thin objects better than thick objects.
- The following table describes how radio waves are usually influenced when impinging on different materials.

Object	Material	Usual behaviour
Wall	Concrete	The thicker the wall, the less the penetration thereof by radio waves.
	Reinforced concrete	Radio waves can penetrate this material. However, the more steel it contains, the more radio waves are reflected.
Window	Glass	Radio waves usually penetrate glass.
	Wired glass	Although radio waves can penetrate wired glass, they tend to be reflected.
	Glass with insulating foil	Radio waves are considerably weakened when they penetrate glass with insulating foil.
Floor	Reinforced concrete	Radio waves can penetrate this material. However, the more steel it contains, the more radio waves are reflected.
Separating wall	Steel	Steel separating walls reflect radio waves and are penetrated by them only to a limited extent.
	Plywood, glass	Radio waves usually penetrate this material.
Pillar	Reinforced concrete	Radio waves can penetrate this material.However, the more steel it contains, the more radio waves are reflected.
	Metal	Radio waves tend to be reflected or deflected.
Cupboard	Steel	Steel usually reflects or weakens radio waves and is penetrated by them only to a limited extent.
	Wood	Radio waves can penetrate wood, however, they are weakened.

Performance Characteristics
Radio Receivers

Receiver model ⇨	Wireless socket HC-503	Alarm receiver HC-501	Emergency call receiver HC-502
Frequency in MHz	869.2375	869.2375	869.2375
AAL certified	✔	✔	✔
Social alarm frequency	✔	✔	✔
Transmitter battery status message	✔	✔	✔
Fault alarm in case of channel blocking	✔	✔	✔
Optical indicators	3	3	3
Operating voltage 230 V AC	✔	✔	
Operating voltage: 5 V DC (via USB)			✔
Operating voltage 12/24 V DC			Optional
Remotely acknowledgeable		✔	✔
Remotely switchable	✔		
Specifications according to DIN/EN 50134	✔	✔	✔
Number of programmable transmitters	64	64	64
Acoustic call message		✔	✔
Optical alarm signal (flash)		✔	✔

Wireless socket

Alarm receiver

Mobil emergency call receiver

Possible Variations
Radio Transmitters

For radio receivers → / Social alarm frequency in MHz	Alarm receivers 869.2375	Mobil emergency call receiver 869.2375	Wireless socket 869.2375
Arm or pendant multi-purpose transmitter	✔	✔	✔
Cancel button Momentary call switch Momentary pull switch Pneumatic squeeze bulb-actuated momentary switch	✔	✔	✔
VarioPull wireless momentary pull and call switch	✔	✔	✔
Emergency call pad	✔	✔	✔
Large-surface momentary switch	✔	✔	✔
Wireless contact mat	✔	✔	✔
Respiratory sensor	✔	✔	✔
Door guard Wireless safeguard against elopement	✔	✔	✔
Noise detector	✔	✔	✔

Alarm receiver

Mobil emergency call receiver

Wireless socket

The Location-independent Call System with VarioCall®

- **CALLING FOR HELP**
- **USING THE SPEAKERPHONE**
- **NAVIGATING**

The location-independent call system has been designed to protect people. During a distress call it allows for precisely locating the position of the person requiring help.

The type of care needed can be determined more precisely by a voice communication by telephone.

GPS and mobile phone technology allow for providing up to three persons with extensive information at the push of a button:

1) **a text message (SMS) with the exact position is sent**

2) **the intercom mode with the person to be called is activated**

3) **the position of the caller is shown on a digital map**

Safety by sound technology and support of modern smartphones. The device allows the position of a person suffering from dementia, for example, to be traced anytime to show the position directly on a map (e.g., Google Maps) and to navigate to this position! A quick retrieval without a long search – and at the same time you can talk directly with the person in need of help.

Being quickly informed also means quick help – VarioCall

This is the size of the VarioCall®

VarioCall is based on high-tech components representing the latest state-of-the-art technology

Configuration is child's play and is externally controlled by simple SMS commands. In case of emergency, operation is similarly simple – technology remains a side issue.

The **VarioCall** can be charged everywhere via USB or with the supplied 230 V plug-in power supply. The state of charge can be requested anytime by SMS. Simple, comfortable and reliable from everywhere.

***SW = black** ***BL = blue** ***PK = pink**

Charging cradle
(optional)

Specifications and order numbers:

AAL *Profiline* VarioCall Order no. **HC-405-xx***
*xx = Colour (SW = black, BL= blue, PK = pink)

Operating frequency:	Quadband GSM
Indicators:	2 LEDs, green / blue
Battery monitoring:	Automatic SMS notification
Dimensions:	61 x 44 x 16 mm (W x H x D)
Weight:	Only approx. 35 g.
Rating:	IP 67, rubber-coated case
Colours:	black / blue / pink
Female connector:	USB micro
Power supply unit:	230 V / 5 V USB

AAL *Profiline* charging cradle Order no. **HC-406**

Operating voltage:	230 V - 5 V
Dimensions:	75 x 35 mm (diameter x H)
Weight:	Only approx. 67 g.

Not included in delivery:
Power adapter and USB connecting cable (included in VarioCall delivery)

Trust and safety due to acoustic and visual alerting with the

alarm receiver

Trust and Safety

In a hospital,somebody is immediately available when called. But even in private households it is possible to call for help at the push of a button – without complicated technology and installation effort.

The self-contained **AAL** ***Profiline*** **alarm receiver** allows you to trigger an optical or acoustic call for assistance at any time.

All transmitters you will find in this catalogue can be combined with the alarm receiver.

For more freedom without having to compromise on safety!

- ► **Socket alarm receiver**
- ► Optical call signalling by integrated flashlight
- ► Acoustic call signalling by integrated speaker
- ► Call cancellation also via acknowledging transmitter

Specifications and order number:

AAL *Profiline* alarm receiver Order no. **HC-501**

Colour:	Housing creamy white, momentary switch and flashlight clear
Frequency:	869.23 MHz (safe social alarm frequency)
Rating:	IP 30
Call volume:	85 dB
Dimensions:	50 x 120 x 75 mm (W x H x D)

AAL ZERTIFIZIERT

Individual control of external devices by the wireless socket

Individual Device Control

The AAL Profiline wireless socket allows you to turn on additional devices such as a bedside or a standard lamp, for example, by stepping on a wireless contact mat, for instance.

All transmitters you will find in this catalogue can be combined with the wireless socket.

Specifications and order number:

AAL *Profiline* wireless socket Order no. **HC-503**

Colour:	Housing creamy white, momentary switch and flashlight clear
Frequency:	869.23 MHz (safe social alarm frequency)
Rating:	IP 30
Dimensions:	50 x 120 x 75 mm (W x H x D)

AAL ZERTIFIZIERT

Mobility is a good argument for the Mobil emergency call receiver

Connected to the supplied USB power supply unit, the mobile emergency call receiver can be operated with mains power.

However, the receiver can also be supplied with power from a computer / laptop or a portable charger.

This offers increased mobility.

- **Optical alarm indication**
- **Acoustic alarm indication**
- **“Battery low” warning**
- **Safe social alarm frequency prevents external transmitters from triggering the receiver**
- **Mobile use by small portable charger**

AAL ZERTIFIZIERT

Specifications and order number:

AAL *Profiline* Mobil emergency call receiver Order no. **HC-502**

Colour:	Black housing
Frequency:	869.23 MHz (safe social alarm frequency)
Rating:	IP 30
Dimensions:	46 x 66 x 19 mm (WxHxD) without cable

Device combinations

delivered in

sets

Alarm receiver

Mobil emergency call receiver

Wireless socket

With wristband transmitter

Order no.	Order no.	Order no.
HC-800	HC-810	HC-820

With pendant transmitter

Order no.	Order no.	Order no.
HC-850	HC-860	HC-870

Compact multi-talent with a wide range of functions and simplest operation

Emergency phone

including
Wristband / pendant transmitter

- **Compatible with all transmitters of the AAL Profiline range**
- **10 speed-dial keys**
- **3 of them image keys with exchangeable inserts**
- **Safe social alarm frequency prevents external transmitters from triggering the receiver**
- **Voice announcement on call triggering**
- **Flashlight at receiver flashes when a call is received**
- **Suitable for use with hearing aids**
- **Up to 5 AAL Profiline emergency call transmitter can be programmed**

Specifications and order number:

AAL *Profiline* emergency phone Order no. **HC-551**

Colour:	white
Connector:	Analogue F / RJ11
Power supply:	**9 V DC (power supply unit included)**
Operating frequency:	869.23 MHz (safe social alarm frequency)
Dimensions:	175 x 65 x 185 mm (W x H x D)

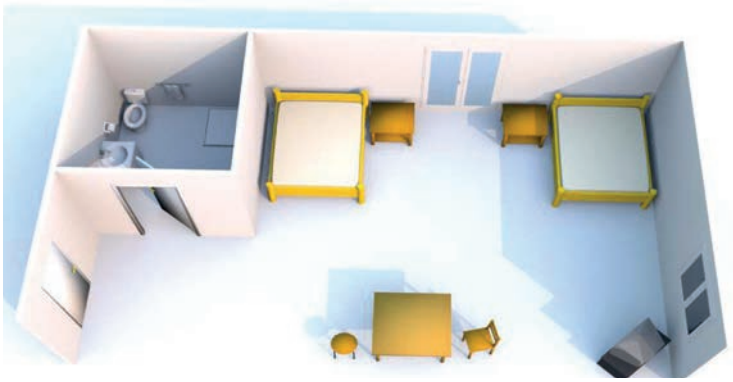
Transmitter in combination with the AAL ***Profiline*** emergency phone

Large momentary call switch

Wristband and pendant transmitters

Contact mat

Emergency call pad

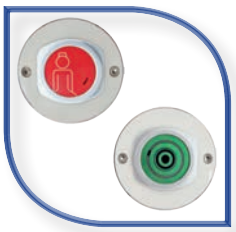


Door guard

Respiratory sensor

Wireless momentary pull and call switch

Wireless respirator sensor

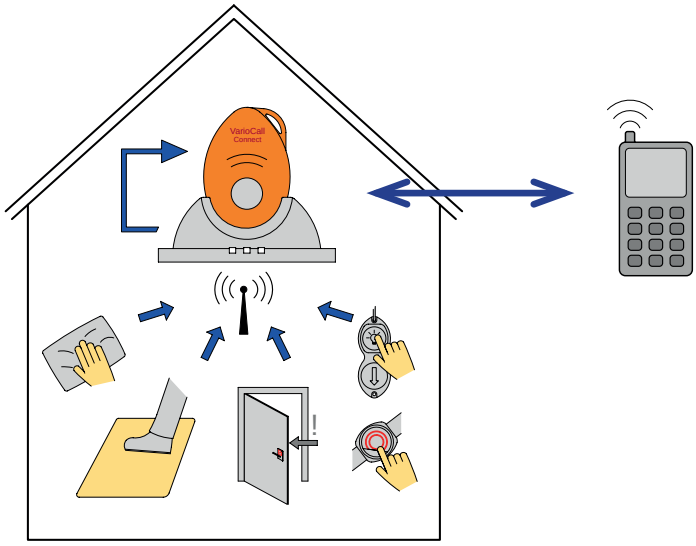


- Momentary call switch
- Cancel button
- Functional momentary switch

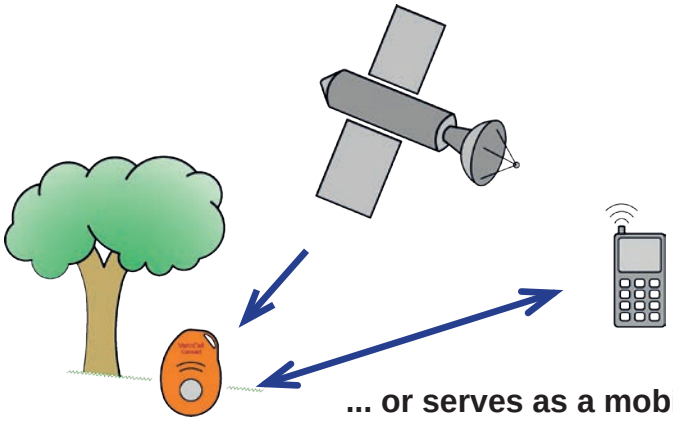
Noise detector

Mobile home emergency call system

VarioCall Home@Connect®



Uses the entire transmitter range of the AAL *Profiline* portfolio indoors...



... or serves as a mobile emergency call device outdoors!

The base for the mobile home emergency call system

VarioCall-*Connect*®

***SW = black**

***BL = blue**

***PK = pink**

Specifications and order number:

House and mobile emergency call base system

AAL Profiline VarioCall-*Connect*® Order no. **HC-480-xx***

*xx = Colour (SW = black, BL= blue, PK = pink)

Mini emergency call transmitter with GPS and telephone option, charging cradle with integrated receiver for wireless call triggering by all AAL Profiline radio components included:

VarioCall-*Connect:*

SIM card:	Not included in the delivery!
Package content:	VarioCall-*Connect*, power supply unit, USB connecting cable, necklace
Weight:	approx. 35 g
Rating:	IP 67
Dimensions:	61 x 44 x 16 mm (W x H x D) without necklace
Battery:	Rechargeable with 5 V DC

Charging cradle for VarioCall-*Connect* with integrated **AAL *Profiline*** receiver:

Transmitter memory:	Up to 64 AAL Profiline emergency call transmitters can be programmed.
Frequency:	869.23 MHz (safe social alarm frequency)
Weight:	approx. 140g
Rating:	IP 30
Dimensions:	115 x 45 mm (diameter x H)

The Latest Innovation

Wireless Motion Sensor VarioCare

WIRELESS ALL-ROUND SECURITY

For nurse call systems and home use

NEW

Description

VarioCare is a cable-free motion sensor system with various optional control and adjustment possibilities.

VarioCare standard version

- Wireless activation of nurse call system receivers or accessories, such as wireless sockets for external light activation, for example
- Ten-minute nursing time, manually activatable directly at the device or by the optional foot pushbutton unit. Avoidance of accidental call triggering during nursing time
- Direction recognition
- Self-releasing magnetic foot
- Rechargeable lithium-ion battery

Optional VarioCare settings only by the VarioCare Remote wireless remote control:

- **Getting-up delay**
- **Day/night activation**
- **Various nursing time settings**
- **Functions can be activated or deactivated**

The **VarioCare** is an easy-to-use sensor for detecting motions in front of a bed or at passages.

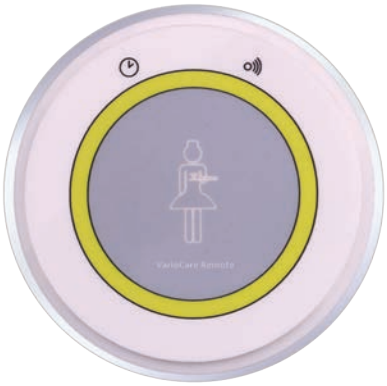
It reliably detects movements of persons and transmits them wirelessly. When connected to a VarioRec receiver, alarm receivers, for example, can be triggered.

An optional foot pushbutton allows the nursing time to be activated without the need to bend down or even when the hands are full. During the nursing time the sensor is inactive and does not trigger alarms.

Via the optional wireless remote control **VarioCare Remote**, a much more versatile option, many additional functions can be adjusted. Various nursing times or getting-up delays can be pre-set. A day/night activation, the acoustic signal transducer and switching of additional light sources can be switched on or off.

...More adjustment possibilities
and indicators in combination with the

Wireless remote control VarioCare Remote and the VarioCare Switch (foot pushbutton)



VarioCare *Remote*
(wireless remote control)
(option)

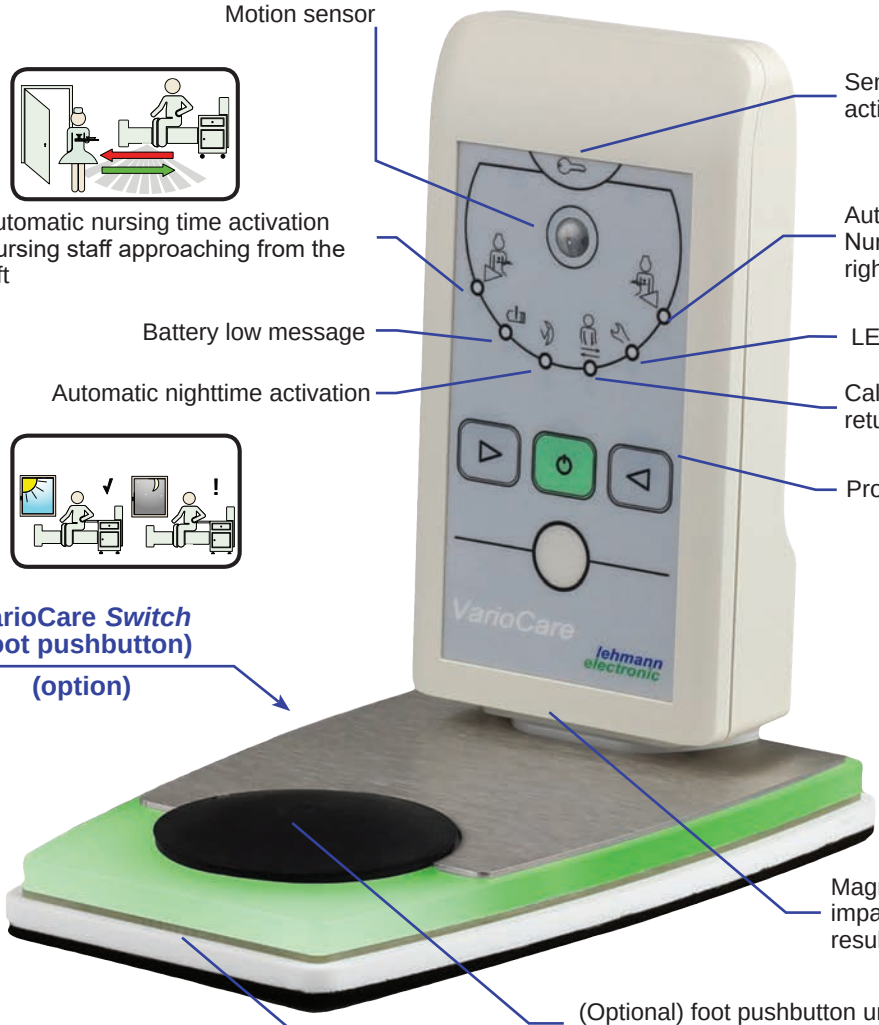
VarioCare

Motion sensor

Automatic nursing time activation
Nursing staff approaching from the left

Battery low message

Automatic nighttime activation



Sensor area for nursing time activation with a magnetic key

Automatic nursing time activation
Nursing staff approaching from the right

LED test programming mode

Call suppression when the patient returns within the set time

Programming buttons

VarioCare *Switch*
(foot pushbutton)
(option)

Magnetic connection! Accidental impacts against the housing do not result in fracture.

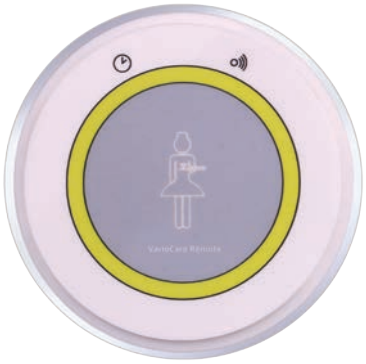
(Optional) foot pushbutton unit for nursing time activation

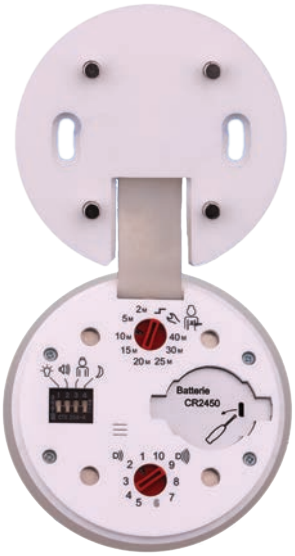
Illuminated field (illuminates when the foot pushbutton is activated during pre-alarm and on expiration of nursing time)

Maximum Operating Comfort

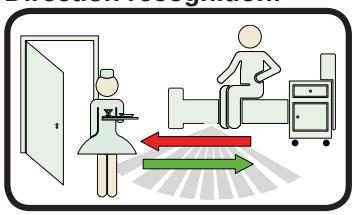
VarioCare *Remote*
Wireless Remote Control

with magnetic wall bracket

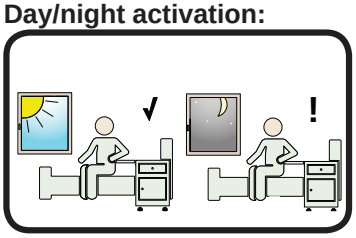




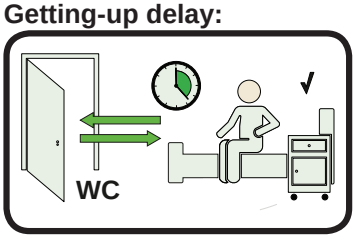
Direction recognition:



Day/night activation:



Getting-up delay:



Description

The **wireless remote control VarioCare Remote** serves for the individual operational adjustment of the **VarioCare**

Getting-up delay:

- A call can be triggered with a time delay. This function allows the patient to go to the toilet without triggering a call, for example. If the patient does not return during the getting-up delay, an alarm is triggered.

Day/night activation:

- As long as there is sufficient light, the **VarioCare** does not transmit calls and does not switch on the light.
- When the room becomes dark, the **VarioCare** is automatically reactivated.

Various nursing time settings:

- The nursing time can be set between 2 and 40 minutes.

Direction recognition:

- Recognises the direction from which the nursing stuff approaches and automatically activates the nursing time.
- The patient who enters the detection zone from a different direction triggers an alarm. Optionally, the light is switched on at night.

Activatable or deactivatable functions:

- Light activation, acoustic message, call triggering, automatic nighttime activation.

The staff activates a nursing time during which an alarm is not triggered.

An acoustic pre-alarm (that can be switched off) sounds early enough before the expiration of the nursing time. The intervals between the signal tones decrease as the end of the nursing time approaches. The staff can prolong the nursing time before it expires (simply by actuating the remote control once).

The staff can abort the nursing time by actuating the remote control. Otherwise, the **VarioCare Remote** automatically reactivates the monitoring mode after expiration of the nursing time.

...short and concise

Specifications

	VarioCare	VarioCare *Remote* Funk-Fernbedienung	VarioCare *Switch* Fußtaster
Social alarm frequency in MHz:	869,23 Mhz		
Indicator:	LED-indicators		
Power supply:	Akku 3.200 mAh battery	CR2450 battery	Via VarioCare
Dimensions:	135 x 74 x 32 mm (H x W x T)	85 x 18 mm (Ø x D)	165 x 111 x 19 mm (L x W x H)
Weight:	238 g	110 g	64 g
Rating:	IP 42	IP 42	IP 64
Cleaning:	according to EN 13727		
Conformity:	DIN/EN 50134		CE

Single devices — **Catalogue no.:**

AAL *Profiline* VarioCare person recognition standard version — **HC-425**

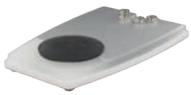
consisting of:
VarioCare with magnetic foot

AAL *Profiline* wireless remote control VarioCare *Remote* — **HC-426**

consisting of:
VarioCare *Remote* with magnetic wall bracket

Accessories — **Catalogue no.:**

AAL *Profiline* VarioCare *Switch* foot pushbutton with magnetic connection and optical indicator — **HC-427**



AAL *Profiline* VarioCare *wall holder* with magnetic connection 118 x 62 x 10 mm (L x W x D) — **HC-425-01**

Wireless safeguard against elopement

Door guard

...never again unnoticed!

Reliable and not manipulable

The **AAL *Profiline* door guard** is mounted from the outside to the door to be monitored and can neither be manipulated nor switched off from the inside, thus reliably ensuring the desired operation. The **AAL *Profiline* door guard** can be activated or deactivated by a magnetic key from the outside at any time. The optical status indication is easily visible.

Comfortable Radio Technology

The **AAL *Profiline* door guard** is a cable-free system which directly signals the opening of a room door by a demented person, for example, to the nursing staff or relatives.
The signal is transferred wirelessly and discreetly to an **AAL *Profiline* receiver**.

Simple Mounting

The door handle adapter is delivered with comprehensive mounting hardware that allows for easy mounting at most round or square door handles.

Specifications and order number:

AAL *Profiline* wireless door guard Order no. **HC-306**

Colour:	Aluminium, white	**Rating:**	IP 40
Frequency:	869.23 MHz (safe social alarm frequency)	**Dimensions:** **Weight:**	106 x 60 x 16 mm (L x W x H) 117 g (battery included)
Transmitter monitoring	with daily test messages according to DIN/EN 50134	**Additional Information:**	Assembly kit included

Matching receivers: see pages 10 to 14

developed by Tezel

AAL ZERTIFIZIERT

AAL *Profiline* PRESSURE MAT

The classic safeguard against elopement

Monitoring at the Bed or Door

The proven safeguard against elopement in the form of the **AAL *Profiline*** contact mat is simple-to-use, extremely robust and provides an absolutely reliable detection. It is used in cases where movements such as getting out of bed or leaving a room, for example, have to be registered.

It is equipped with an impact-resistant transmitter and thus completely mobile both in the domestic area and in nursing homes.

Robust Industrial Grade

Whether walking frame, wheelchair or crutch – the **AAL *Profiline* contact mat** is wear-resistant in the long run and does not lose its functionality. Moreover, it is watertight, bactericidal and can be easily cleaned.

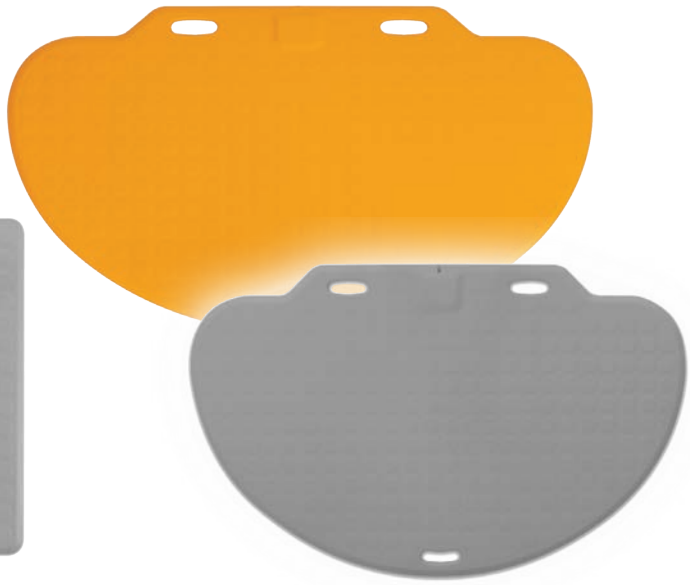
And if it is to disappear:

Simply increase cosiness by covering it with a carpet. This will not impair its functionality.

Detection of Movements of Persons with Dementia and of Vital Signs

The **AAL *Profiline* contact mat** is easy to place anywhere thanks to its flat design. The stable impact-resistant, non-slip and trip-resistant design has bevelled edges and an easy-to-clean surface with knob structure. The proven radio version provides additional safety features such as an intelligent battery monitoring of the integrated transmitter.

Square AAL *Profiline* contact mat



Semi-circular
AAL *Profiline* contact mat

Specifications and order number:

Square AAL *Profiline* wireless contact mat	**orange**	Order no.	**HC-311**
Square AAL *Profiline* wireless contact mat	**grey**	Order no.	**HC-311-GR**
Semi-circular AAL *Profiline* wireless contact mat	**orange**	Order no.	**HC-312**
Semi-circular AAL *Profiline* wireless contact mat	**grey**	Order no.	**HC-312-GR**

Frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring	with daily test messages according to DIN/EN 50134
Rating:	IP 54
Dimensions:	approx. 1100 x 700 x 9 mm (L x W x H), large approx. 1100 x 700 x 9 mm (L x W x H), semi-circular
Weight:	7.5 kg / 6.5 kg

Matching receivers: see pages 10 to 14

WIRELESS
emergency call transmitters

Help at the Push of a Button

Wireless and on hand at all times:
the robust AAL Homecare transmitters.

They are available both as wristband transmitters or pendant transmitters with integrated strangulation protection.

Safety and reliability are most important!

- ► **Universal emergency call transmitter with timeless design**
- ► Optionally available as a wristband or a necklace transmitter
- ► Completely watertight and disinfectable.
- ► Necklace with strangulation protection according to EN 50134

Specifications and order number:

AAL *Profiline* wristband transmitter	Order no.	**HC-125**
AAL *Profiline* wristband transmitter	Order no.	**HC-135**

Colour:	Housing anthracite, momentary call switch and LED red
Frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring	With daily test messages according to DIN/EN 50134
Weight:	16 g (battery included)
Rating:	IP 68 (watertight)
Dimensions:	43 x 46 x 10 mm (L x W x H), without necklace
Additional Information:	Necklace with strangulation protection (HC-135 only)

Matching receivers: see pages 10 to 14

AAL ZERTIFIZIERT

No matter whether self-contained or compatible with your other AAL devices

The **AAL** ***Profiline*** **receivers** offer the best reception for any application. Whether in private households or in nursing homes: the emergency call transmitter of

the pendant or wristband type and the self-contained **AAL** ***Profiline*** **call receiver** are always the best solution.

Get help at the push of a button

at any time

RADIO set
alarm receiver+

emergency call transmitter

Technology
you
can tru
blind

AAL ZERTIFIZIERT

Specifications and order number:

AAL *Profiline* alarm receiver & emergency call transmitter set Order no. **HC-8xx**

(see page 13 for set numbers)

Transmitter:	Housing anthracite, momentary call switch and LED red
Receiver:	Housing creamy white, momentary switch and flashlight clear
Frequency:	869.23 MHz (safe social alarm frequency)
Rating:	Transmitter: IP 68 (watertight) Receiver: IP 30
Dimensions:	Transmitter: 43 x 46 x 10 mm (L x W x H) Receiver: 50 x 120 x 75 mm (W x H x D)

Trust and Safety

In a hospital, somebody is immediately available when called. But even in private households it is possible to call for help at the push of a button – without complicated technology and installation effort.

The self-contained **AAL** ***Profiline*** **alarm receiver** enables you to call anytime by just pressing a button.

This does not only work with the transmitter provided in the set but can also be combined with all other **AAL** ***Profiline*** radio products you will find in this catalogue.

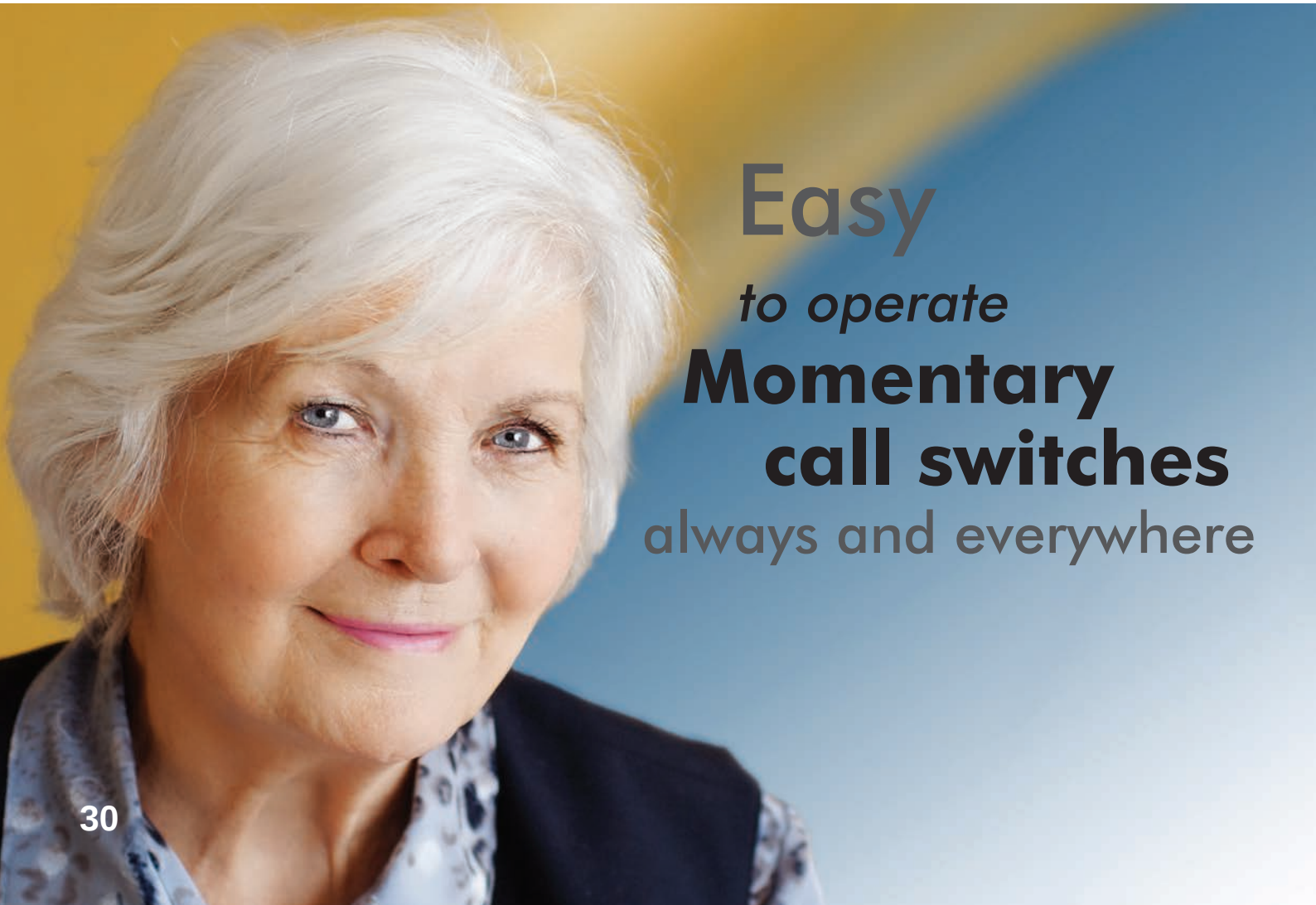
For more freedom without having to compromise on safety!

WITH THE EASE OF A TOUCH

Pad or bellows?

We Focus on People

Whoever operates a momentary call switch has good reason to do so and trusts that the device will quickly and reliably call for assistance. A complicated technology, small, hard-to-find and difficult-to-operate momentary call switches that are possibly even beyond reach will quickly unsettle persons relying on this technology. ***AAL-Homecare*** now offers two convenient and particularly easy-to-operate special momentary call switches.



Emergency call pad

For Any Situation

You have the choice when it comes to a **slight touch** to trigger a call:

► The **AAL *Profiline* wireless emergency call pad** offers a **large**actuating area and a call can be triggered by pressing any side of the pad. Due to its high sensitivity even persons with greatly limited motor skills are able to easily and reliably trigger it. The advantages of the pneumatic pad transmitter, in addition to its large actuating area, are its universal mounting options.

Hence, it can be attached to the bed with a hook-and-loop fastener or, since cables are not required, it can be placed directly in the bed, for example, near the hand or the cheek.

► The **AAL *Profiline* wireless large momentary call switch** provides a saucer-sized call button that is not only easy-to-operate but can also be found and felt very easily. It can trigger a call via radio transmission. The robust construction is designed for daily use.

Wireless large momentary call switch

If simplicity is the goal

Wireless emergency call pad

Simple, easy-to-operate and reliable

The following situation may occur: You cannot move any longer as you used to – the motor skills are limited and in a case of emergency a normal call button can be actuated only with great effort or cannot be actuated at all.

With the pneumatic emergency call pad this is easy-going: the highly sensitive pneumatics reliably registers the slightest touch and triggers a call. This can be done with a hand, an arm or – if required – even with the cheek or other limbs. Using radio transmission, the emergency call pad, of course, operates without inconvenient cables.

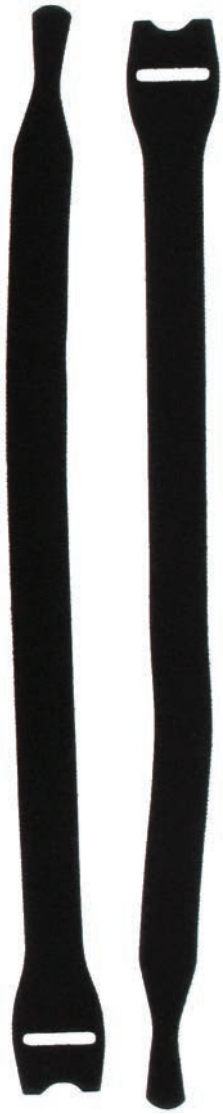
Specifications and order number:

AAL *Profiline* wireless emergency call pad Order no. **HC-101**

Colour:	Orange-red	**Dimensions:**	230 x 160 x 35 mm (L x W x H)
Frequency:	869.23 MHz (safe social alarm frequency)	**Weight:**	177 g (battery included)
		Rating:	IP 30
Transmitter monitoring	with daily test messages according to DIN/EN 50134	**Additional information:**	Hardware included

Matching receivers: see pages 10 to 14

AAL ZERTIFIZIERT



► **Solid workmanship made in Germany**

► Easy operation with acoustic feedback.

► Easy-to-clean due to detachable outer shell.

► Universal mounting options due to sophisticated accessories.

A LARGE AREA on the pneumatic MOMENTARY SWITCH ACTUATED BY A BELLOWS

Find Without Searching

The large actuating area for all persons who cannot or can no longer operate a standard momentary call switch. The pneumatic momentary switch actuated by a bellows makes it easy for the caller: the highly sensitive pneumatic sensors respond to the slightest pressure.

The convenient radio technology allows the pneumatic large-surface momentary switch actuated by a bellows to be used within seconds both in private households and nursing homes.

Sophisticated Details

The ready-to-operate bactericidal rubber actuating area has a very large diameter of approximately 9 cm. A red call indicator provides a visual control.

Specifications and order number:

AAL *Profiline* wireless large momentary call switch Order no. **HC-105**

Colour:	Housing beige, call button and LED red
Frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring	With daily test messages according to DIN/EN 50134
Weight:	145 g (battery included)
Rating:	IP 44
Dimensions:	110 mm x 40 mm (diameter x H) (Actuating area diameter 90 mm)

Matching receivers: see pages 10 to 14

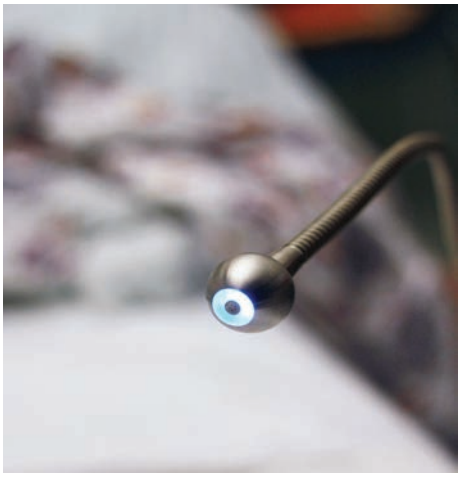
...one breath suffices

AAL-Homecare respiratory sensor

Non-contact breath-controlled call sensor for persons with greatly restricted mobility.

A completely novel respiratory sensor incorporating outstanding know-how. The respiratory sensor is compatible with all **AAL *Profiline* receivers**.

The universal clamp and the flexible gooseneck allow a simple mounting and adjustment of the sensor.



developed by Tezel

Even in noisy surroundings

As a non-contact respiratory sensor, the **AAL *Profiline* respiratory sensor** offers considerable improvements over known blow sensors since the slightest breathing on the respiratory sensor allows for triggering a call. **This works reliably even in noisy surroundings (TV, radio, etc.).**

Advantages

- ► Reliable signalling despite low respiratory force.
- ► Contact-free actuation up to a distance of 15 cm.
- ► Slim design, no hoses, no filters and no sputum separator required.
- ► Optical status indication directly at the sensor head; locating light included.
- ► Fast mounting.
- ► The metal surface is easy to clean and hygienic.

Specifications and order number:

AAL *Profiline* wireless **respiratory sensor** Order no. **HC-110**

Colour:	Silver, locating light blue, LED indicator lights coloured
Frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring	With daily test messages according to DIN/EN 50134
Weight:	1,200 g
Rating:	IP 44
Dimensions:	80 x 130 x 30 mm (W x L x H) (gooseneck 670 mm)
Supply:	24 V power supply unit (included)

Matching receivers: see pages 10 to 14

AAL ZERTIFIZIERT

Wireless momentary pull and call switch

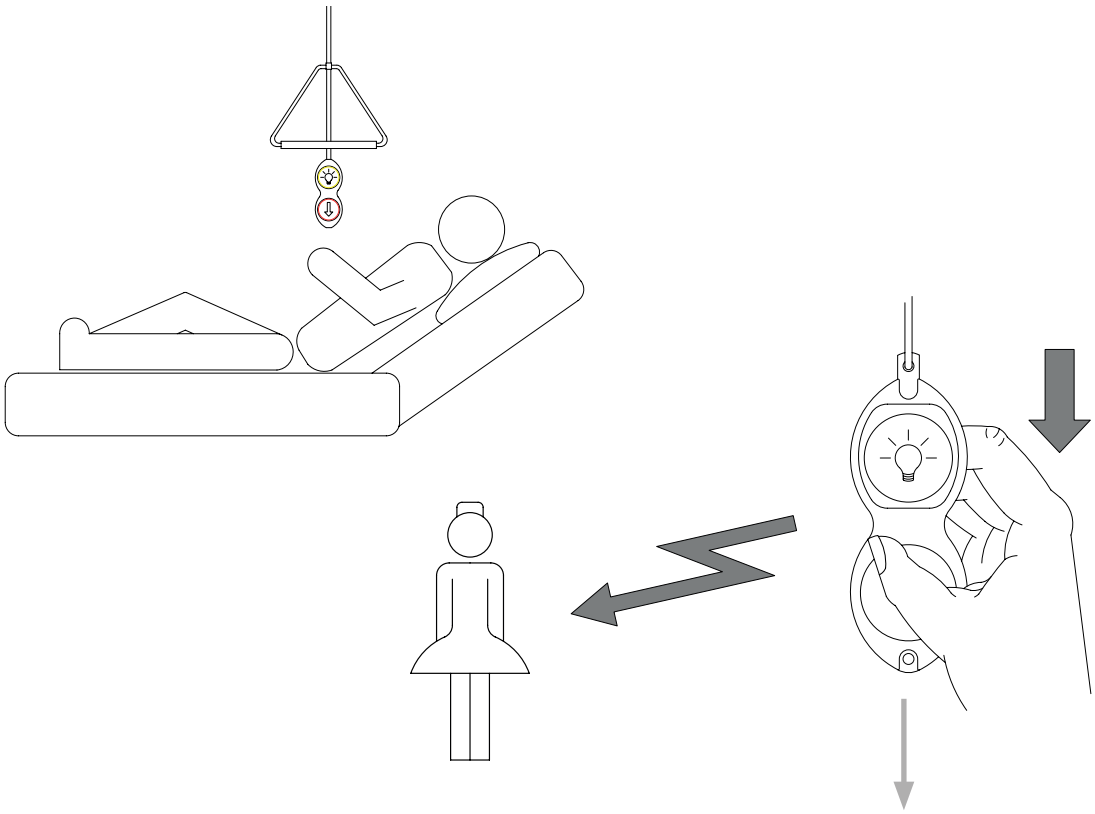
VarioPull

The **AAL *Profiline* wireless momentary pull and call switch VarioPull** can be used wherever cable connections to the connection box get in the way or do not exist.

Due to the additional pull switch function (pulling at the device or a pull cord attached thereto) it is well suited for persons with limited mobility.

The **VarioPull** wireless momentary pull and call switch is designed both for suspended installation (at a bed gallows, for example) and for use as a normal momentary call switch.

A GOOD & SAFE FEELING



Specifications and order number:

AAL *Profiline* wireless momentary pull and call switch VarioPull **Order no. HC-170**

Operating frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring	With daily test messages according to DIN/EN 50134
“Call” button	Full-surface membrane push button, diameter approx. 32 mm
Additional call triggering:	pull switch
Indicators:	LED indicator for call and battery messages
Power supply:	3 V button cell; type: CR 2032 (service life approx. 3 years with one activation per day)
Dimensions:	52 x 130 x 19 mm (WxHxD)
Weight:	Approx. 110 g (battery and mounting strap included)
Rating:	IP 68 (watertight)
Conformity:	CE (R&TTE directive, RoHS directive)

Matching receivers: see pages 10 to 14

Note: Technical details serve for orientation purposes and are not binding. Subject to change without giving reasons.

wireless momentary pull switch

watertight

Description

Wireless momentary pull switch for wall mounting. Watertight and disinfectable.

Triggering elements

Large easy-to-operate button surface with pressure point. With LED for call and battery status indication. The pull cord is connected to the transmitter module via a patented reinsertable weakened connection.

Additional safety features

Intelligent battery monitoring with LED indicator and control message to matching receivers.

With automatic daily test messages
according to DIN/EN 50134

Operation

Battery life approx. 3 years.

Specifications and order number:

AAL *Profiline* wireless momentary pull switch, watertight **Order no. HC-150**

Operating frequency:	869.23 MHz (safe social alarm frequency)
Triggering elements:	Pull cord, pushbutton
Pull-type triggering element:	with solenoid
Battery monitoring:	“Battery low” recognition with radio transfer
Transmitter monitoring	With daily test messages according to DIN/EN 50134
Call button:	Easy-to-operate button insert
Indicator:	Red LED for call indication and “battery low” message
Power supply:	3.0 V button cell CR2032, service life approx. 3 years
Dimensions:	74 x 14 mm (diameter x D)
Pull cord:	Length approx. 2.0 m With reinsertable weakened connection (strangulation protection according to DIN/EN 50134)
Weight:	approx. 80 g
Rating:	IP 68 (watertight)
Mounting:	Screw-on mounting

Matching receivers: see pages 10 to 14

AAL ZERTIFIZIERT

Wireless momentarycall switch momentarycancel switch momentary function switch

watertight

Momentarycall switch

Functional momentary switch / cancel button

Description

Universal wireless momentary switches for wall mounting. Watertight and disinfectable.

Buttons

Large easy-to-operate button surface with smooth pressure point. With LED for call and battery status indication.

Additional safety features

Intelligent battery monitoring with LED indicator and control message to matching receivers.

With automatic daily test messages according to DIN/EN 50134

Operation

Battery life approx. 3 years.

Specifications and order number:

AAL Profiline wireless momentary call switch, watertight	**Order no. HC-180**
AAL Profiline wirelessfunction/cancel momentary switch, watertight	**Order no. HC-185**

Operating frequency:	869.23 MHz (safe social alarm frequency)
Battery monitoring:	“Battery low” recognition with radio transfer
Transmitter monitoring	With daily test messages according to DIN/EN 50134
Call button:	Large button insert with a diameter of 35 mm
Indicator:	Red LED for call indication and “battery low” message
Power supply:	3.0 V button cell CR2032, service life approx. 3 years
Dimensions:	74 x 14 mm (diameter x D)
Weight:	approx. 35 g
Rating:	IP 68 (watertight)
Wall mounting:	Screw-on mounting or double-faced adhesive tape
Function:	The function is specified in the receiver system and therefore may differ from the description. The button colour only serves as an aid for the user.

Matching receivers: see pages 10 to 14

Wireless
squeeze bulb-actuated momentary switch
watertight

Description

AAL *Profiline* wireless squeeze bulb-actuated momentary switch for wall mounting. Watertight and disinfectable.

Buttons

The momentary switch consists of a big rubber ball that is connected to the wall sensor by a tube. Red LED for call and battery status indication.

Additional safety features

Intelligent battery monitoring with control message to matching receivers.

Operation

Battery life approx. 3 years.

Specifications and order number:

AAL *Profiline* wireless squeeze bulb-actuated momentary switch Order no. **HC-190**

Operating frequency:	869.23 MHz (safe social alarm frequency)
Triggering:	By pressing the (replaceable) rubber ball
Battery monitoring:	“Battery low” recognition with radio transfer
Transmitter monitoring:	With daily test messages according to DIN/EN 50134
Indicator:	Red LED for call indication and “battery low” message
Power supply:	3.0 V button cell CR2032, service life approx. 3 years
Dimensions:	80 x 15 mm (W x D, without pneumatic tube fitting)
Pneumatic tube:	Length approx. 1.8 m (replaceable)
Weight:	approx. 210 g
Rating:	IP 66 (watertight)
Wall mounting:	Screw-on mounting

Matching receivers: see pages 10 to 14

If you want to be sure

Secure transmitter

Make your daily life safer and more comfortable!

Functional and ready for use

Front
Signal LED

Side view

This transmitter is a universal transmitter module with switch inputs. Magnetic contacts mounted on both sides allow for movement monitoring.

- Switch input for NC contact
- Switch input for NO contact
- Switch input 12 ... 24 V DC, adjustable for triggering at voltage ON / OFF
- Magnetic contact, left-hand side
- Magnetic contact, right-hand side

Solenoid
(optional)

Specifications and order number:

AAL *Profiline* Secure transmitter Order no. **HC-450**

Indicators:	LED indicator for call and battery messages
Messages:	Radio call, “battery low” message
Frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring:	with daily test messages according to DIN/EN 50134
Dimensions:	71 x 44 x 28 mm (HxWxD)
Rating:	IP 40
Battery type:	3 V button cell; type: CR 2032
Weight:	approx. 40 g

Matching receivers: see pages 10 to 14

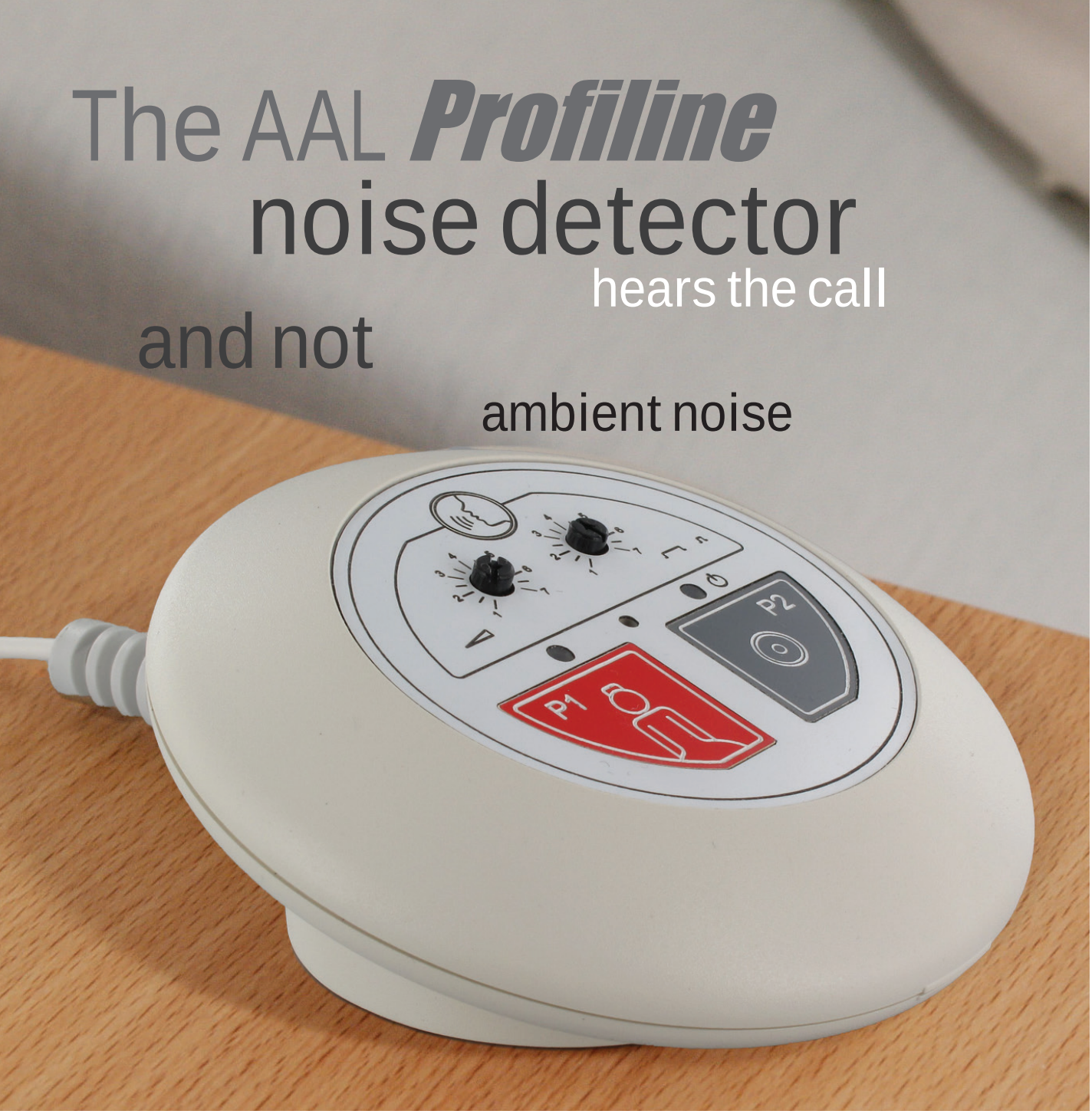
Signalling via
AAL *Profiline* receivers

Alarm receiver

Emergency call receiver Mobil

wireless socket

AAL ZERTIFIZIERT



Reliable Call Detection

The acoustic room monitoring can be used in addition to the normal **AAL call system** if mobility is restricted, for example. The **AAL *Profiline* noise detector** is individually adjustable and can be quickly set.

Highly Sensitive Noise Detector Incorporated in a Design Table Housing

Featuring intelligent voice level determination and versatile adjustment possibilities,

the **AAL *Profiline* noise detector** offers comfortable and highly reliable monitoring. In addition, the integrated momentary call switch offers the option of a manually triggered conventional call.

Convenient Extras

The **AAL *Profiline* noise detector** offers an intelligent simulation mode.

Specifications and order number:

AAL *Profiline* wireless noise detector Order no. **HC-315**

Colour:	Beige, call button orange-red
Frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring:	With daily test messages according to DIN/EN 50134
Weight:	248 g
Dimensions:	110 x 30 x 50 mm (diameter x H)
Supply:	24 V power supply unit (included)

Matching receivers: see pages 10 to 14

AAL ZERTIFIZIERT

Wireless SMOKE DETECTOR

AAL *Profiline* smoke detector

Reliable, fast detection and rapid transmission per radio signal to **AAL *Profiline* receivers** offer a high level of safety.

The room smoke detector ensures that a local smoke/fire alarm in living areas of private homes and retirement homes/residences is also relayed to relatives or the nursing staff without delay.

Specifications and order number:

AAL *Profiline* wireless smoke detector Order no. **HC-320**

Colour:	White
Frequency:	869.23 MHz (safe social alarm frequency)
Transmitter monitoring:	With daily test messages according to DIN/EN 50134
Weight:	200 g (battery included)
Dimensions:	113 x 64 mm (diameter x H)

Matching receivers: see pages 10 to 14

AAL ZERTIFIZIERT

Additional information

Other catalogues

LED Signal Technology Catalogue Ⓐ **for nurse call systems**

Radio and Rehab Technology Catalogue Ⓑ **for nurse call systems**

Toilet Emergency Call Catalogue Ⓒ

Text for tenders: please enquire

Other product lines

VARIOLITE® **signal technology**

MEDISWITCH® **rehab technology**

MEDISYS® **toilet emergency call**

VARIOLITE
Asteria

VARIOLITE
Westerwald

VARIOLITE
Platinum

VARIOLITE
Duo symbol lamp

VARIOLITE
Kronos

VARIOLITE
Orion

VARIOLITE
Platini

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