

Tomorrow's aspirations.

The complete range  
of Busch-Watchdogs



Busch-Watchdog 220 AlarmLINE

**ABB**

**For your protection. For your comfort.  
For all areas.**



**R**elax! The new Busch-Watchdogs have everything under control. Nothing escapes their highly sensitive eyes. They react fast and reliably. And they adapt to all individual features and requirements. Whether at home or at work: Busch-Watchdogs welcome your visitors with light and warn you of uninvited guests. They regulate the lighting in your house and control air-conditioning, ventilation and heating systems. And not only the installation, but also the operation is child's play. Just pick up your remote-control unit. Or use the control panel of your intelligently wired house. Everything is possible. With security. And with unequalled comfort.



<b>Busch-Watchdog Overview</b>	<b>from Page 4</b>
<b>Busch-Watchdog 220 AlarmLINE</b>	<b>10–11</b>
<b>Busch-Watchdog 220 ProfessionalLINE</b>	<b>12–13</b>
<b>Busch-Watchdog 90 ProfessionalLINE</b>	<b>14–15</b>
<b>Busch-Watchdog 280 ProfessionalLINE</b>	<b>16–17</b>
<b>Busch-Watchdog 220 SelectLINE</b>	<b>18–19</b>
<b>Busch-Watchdog 220 ProfessionalLINE EIB</b>	<b>20–21</b>
<b>Busch-Watchdog Präsenz tech</b>	<b>22–23</b>
<b>Busch-Watchdog 180 UP Sensor Comfort II</b>	<b>24–25</b>
<b>Busch-Watchdog 180 UP Sensor Standard</b>	<b>26</b>
<b>Busch-Watchdog Allwetter 44®</b>	<b>27</b>



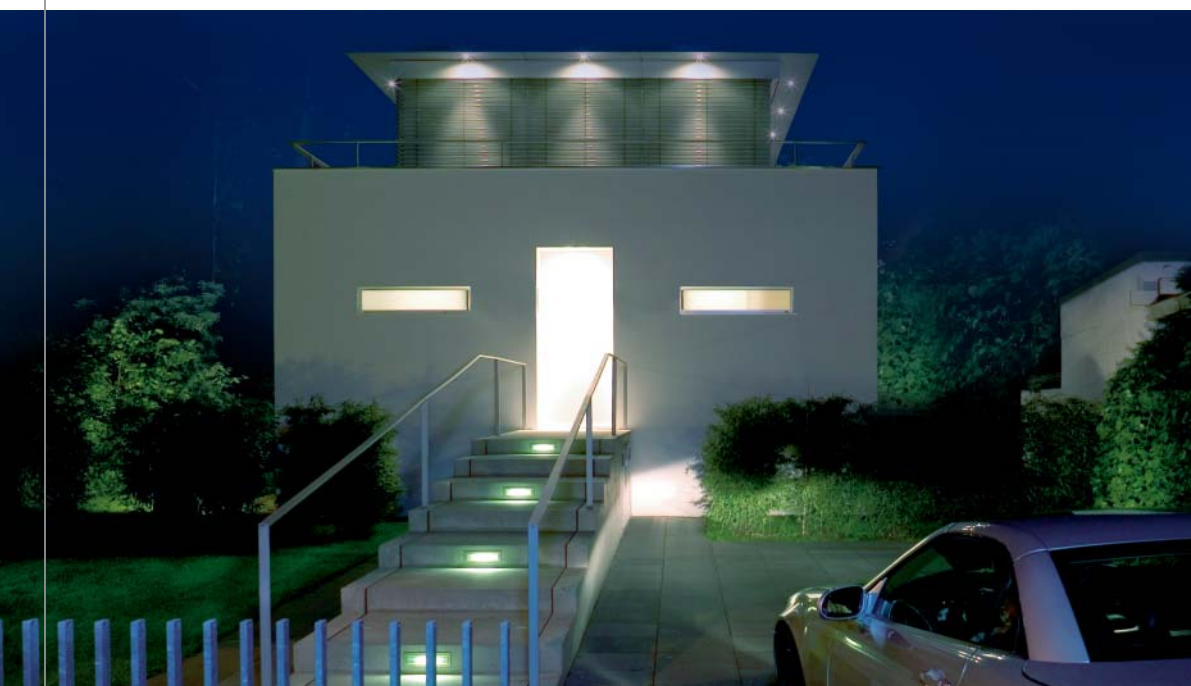


## Varied in use. Unique in comfort.

Whether in your home or your business, whether for your security or your personal comfort:

there is hardly any application in which the innovative Busch-Watchdogs are not at home.

And the best part is: all models have many practical setting options and additional functions.



Functional and attractive:

the design and format of  
the Busch-Watchdogs.

The high-grade optical  
systems guarantee seam-  
less surveillance in any  
desired surveillance zone.





Very bright: the micro-processor-controlled electronic system of Busch-Watchdogs notices immediately when you enter a room – and ensures that a light goes on automatically.



Guests come and go. The intelligent Busch-Watchdogs recognise exactly when light is required and show your visitors their way in the dark. The dimming value as of which the system is activated can be individually set.

Busch-Watchdogs control more than just the light. The Präsenz tech model, for instance, also regulates the room air-conditioning. Depending on where, for example, people are sitting and working, the appropriate functions are activated.

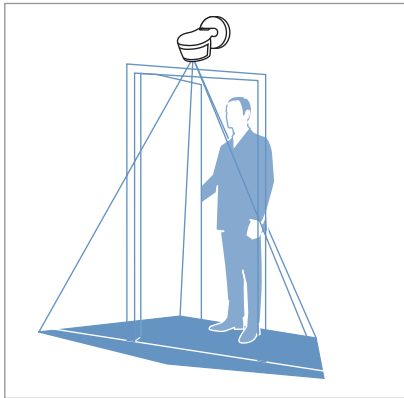
Reliable use outside also: the flush-mounted movement detector Busch-Watchdog Allwetter 44® reliably controls, for example, the lighting for terraces and rooms with water fittings.



# Thought out to the smallest detail: form becomes function.

With a Busch-Watchdog, you can always rely on perfect function and technology.

All models stand out through their user-friendliness. And a design concept that makes installation particularly easy and safe.



A typical comfort feature of Busch-Watchdogs: thanks to the rearfield surveillance, the outside light is switched on even before you leave your house.



A great security extra of the 220 AlarmLINE: when someone enters the inner security zone, the red flashing light goes on as a warning.

Rapid access from everywhere:

Most Busch-Watchdogs for outside areas (all except the 90 ProfessionalLINE and the 220 EIB ProfessionalLINE) have an infrared manual transmitter. You can therefore conveniently activate the continuous light function for 4 hours. And when you go on holiday, simply press for simulated presence.



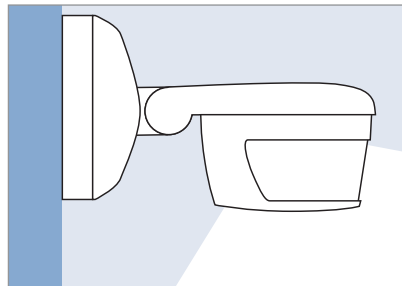
It's an advantage if the fitter also has it easy. Because this reduces installation costs. With the Busch-Watchdog infrared service manual transmitter for fitters, all extended settings and special functions can be specified quickly and conveniently.



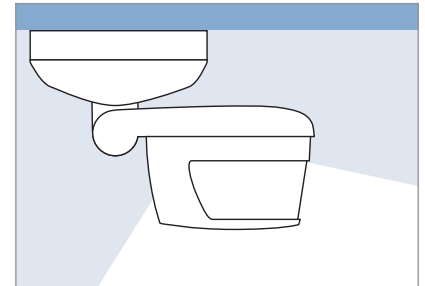
No two houses are the same.

The possibilities for mounting technology are often limited.

The models of the Busch-Watchdog range are therefore suited to all installation varieties.

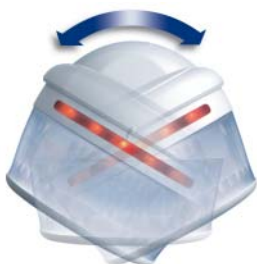


Wall mounting



Ceiling mounting

Irrespective of the property or environment – a Busch-Watchdog can deal with any situation. Innovation: to adjust to slopes, the head can also be tilted to the side.



Eyes straight ahead!

Or rather to the side?

Nothing is impossible, because the detection zone can be turned exactly in the desired direction.



A quick turn – and click!

Features such as the bayonet catch, the time-saving one-hole installation or the wall connection socket with level compensation make the installation of the Busch-Watchdog an all-round neat affair.



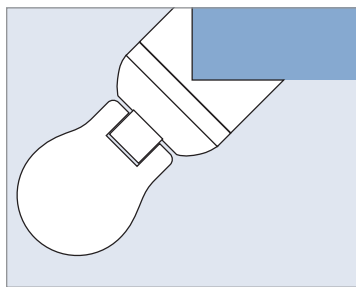
# Special skills required? Busch-Watchdog is the answer!

Effective security requires tailor-made solutions. The comprehensive Busch-Watchdog range offers the right specialists for practically any application.



Just think around the corner!

The Busch-Watchdog 280 ProfessionalLINE will not leave you in the lurch. With a surveillance zone of 280°, it can deal with even the most difficult surveillance tasks. And in combination with a special adapter, it is predestined for installation on house corners.



Corner mounting

The typical case for approach from the front: the terraced house, the pavement, the gate entrance. When targeted surveillance of a clearly defined area is involved, the Busch-Watchdog 90 ProfessionalLINE is the perfect solution for you.



# You decide which is the right one for you. Busch-Watchdog for outside areas: the overview.

First compare, then decide! The table provides an overview of the most important product specifications and performances. Detailed descriptions can be found on the following pages.

## Product advantages: Busch-Watchdogs ProfessionalLINE and AlarmLINE

Busch-Watchdog	AlarmLINE	ProfessionalLINE				SelectLINE	EIB ProfessionalLINE
Function	<b>220</b>	<b>220</b>	<b>90</b>	<b>280</b>	<b>220</b>	<b>220</b>	
Art. No.	6849 AGM-xxx	6845 AGM-xxx	6853 AGM-xxx	6846 AGM-xxx	6845 AGS-xxx	6179 AGM-xxx	
Surveillance zone (in °)	220	220	90	280	220	220	
Simulated presence <sup>2</sup>							
Continuous light (4 hrs)	•	•		•	•		
Range stabilisation	•	•		•	•		
Adapted surveillance			•		•		
Optical alarm	•						
Security zone	•						
Remote control <sup>2</sup>	•	• <sup>3</sup>		•	•		
Detection and operating mode display	•	•	•	•	•		
Rearfield surveillance	•	•	•	•		•	
Light ON (NC switch)	•	•	•	•	•		
High connected load	• <sup>5</sup>	• <sup>4</sup>	• <sup>4</sup>	• <sup>4</sup>	•		
Automatic transfer from Test to Standard	•	•	•	•	•		
Installation on house corner	•	•	•	•	•		
Integration in EIB system						•	

<sup>1</sup> For installation on the house corner, a corner adapter 6887-xxx is required.  
<sup>2</sup> Via infrared manual transmitter.  
<sup>3</sup> Available with and without remote control.  
<sup>4</sup> Up to 3,680 W/VA.  
<sup>5</sup> Up to 2,300 W/VA.

All Busch-Watchdogs are available in 4 different colours. The Busch-Watchdog 280 ProfessionalLINE is not available in stainless steel.



White



Brown



Anthracite



Stainless steel

# Welcome to the intelligent security zone: Busch-Watchdog 220 AlarmLINE

**S**ensitive, intelligent, alert: when your security is involved, the Busch-Watchdog 220 AlarmLINE is the right choice. The special feature in its superior technology with numerous practical additional functions is its special security zone. A red warning light flashes when someone has entered this area.

The Busch-Watchdog 220 AlarmLINE has a detection angle of 220° and a range of 16 m in all directions. Owing to its 3-axis adjustment, it is ideal for the surveillance of properties on slopes. A special highlight is the integration of a special "inner" security zone. It is possible thanks to innovative technology with which 2 of a total of 4 detection levels can be evaluated separately.

In practice this means: your Busch-Watchdog 220 AlarmLINE reacts highly sensitively to any approaching persons – and in 2 consecutive stages. As soon as the infrared movement detector registers a

source of heat at a distance, it first automatically triggers the light switch – even in poor weather conditions. If the person then enters the inner security zone, an additional red warning light on the unit goes on as a deterrent. In addition, via a special switch output inside the house a warning signal can be triggered, e.g. by means of a second light going on. In principle, with the 220 AlarmLINE you have the choice between 3 sensitivity level settings. They can be set simply at the unit. By means of your infrared manual transmitter, you can conveniently activate useful

additional functions such as simulated presence.

Another practical feature: your Busch-Watchdog 220 AlarmLINE can be connected to a separate wall switch that you can fit simply for example instead of the previous outside light switch. So the simple press of a button at the usual point is enough to turn on the light briefly.

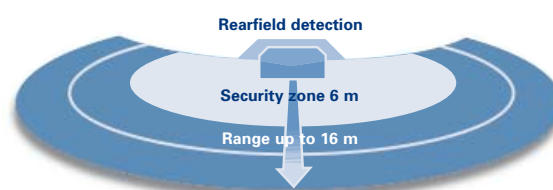


**Garden party in the best light: you can activate the continuous light simply via your manual transmitter. After 4 hours your Busch-Watchdog automatically switches back to normal operation.**



With a selector switch at the bottom of the unit, you can make important basic settings and for example select the response sensitivity.

The AlarmLINE220 registers all movement on a total of four detection levels.

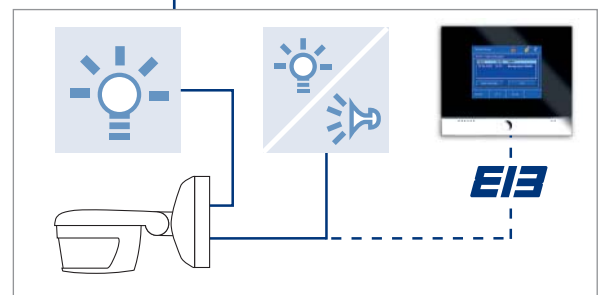




## The allrounder with the security bonus

No detection gaps:  
the professional lenses see  
everything and provide  
both optimum protection  
and comfort for the secu-  
rity zone.

An additional switch output  
allows the triggering of an  
optical or acoustic alarm signal  
in the house when the security  
zone is entered.



# This allrounder is far-sighted: Busch-Watchdog 220 ProfessionalLINE

Sit back and relax. Because this allrounder is alert and watching. State-of-the-art infrared technology, a high-volume professional lens and several security and comfort functions make it the perfect solution for the most varied applications.

Security without compromise. With its extremely powerful lens, this Busch-Watchdog provides seamless surveillance of an angle of 220° on 4 levels. In an area of 16 m forward and to both sides, nobody can approach without detection: the Busch-Watchdog 220 ProfessionalLINE reacts immediately to a moving heat source and triggers the light switch.

At the same time, flexibility is guaranteed: because the 3-axis adjustment ensures optimum surveillance even for properties on slopes. Thanks to its high technical sensitivity, the Busch-Watchdog 220 ProfessionalLINE works absolutely reliably – even in poor weather.

By means of the infrared manual transmitter, you can conveniently activate the most important functions and, for example, when you are sitting in the garden, set the continuous light with just a flick of the wrist (max. 4 hours). Another advantage: selection between 3 different sensitivity levels that can be easily set. Your house is also protected while you are on holiday: When you activate the simulated presence, the Busch-Watchdog 220 ProfessionalLINE switches your lights on and off in the evening as if you were at home. The design of the new Busch-Watchdog 220 ProfessionalLINE is both practical and attractive.

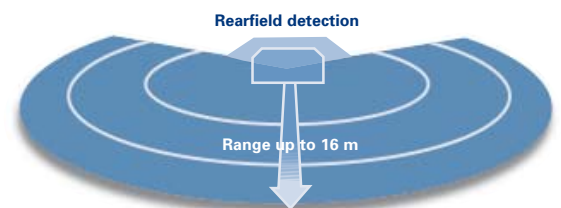
Mounted on a ceiling or wall, the large connection area simplifies installation. And here too, your Busch-Watchdog shows how smart it is: it switches automatically from test operation to standard operation.



Even when you are on holiday, the Busch-Watchdog provides security. For the simulated presence function automatically turns the outdoor lights on at your home every evening.



State-of-the-art infrared detection: the high-volume professional lens for seamless surveillance with a range of up to 16 m.







**Its watchful eye misses nothing**

The "universal genius" of the Busch-Watchdog range is ready with numerous functions that make the Busch-Watchdog 220 ProfessionalLINE indispensable both outdoors and indoors.



Technology without equal: select for example between 3 sensitivity level settings and set the 220 ProfessionalLINE to your requirements.

# Full concentration on essential features: Busch-Watchdog 90 ProfessionalLINE

It is ideally suited for monitoring terraced houses, footpaths and gates.

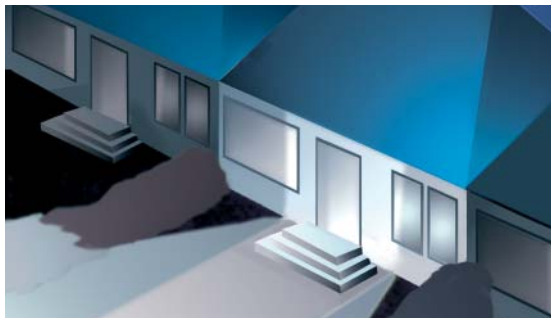
Its 3-axis adjustment allows precise alignment to the individually desired surveillance zone.

The surveillance zone of the Busch-Watchdog 90 ProfessionalLINE is can be precisely adjusted in all directions without affecting detection quality by simply adjusting its support arm. This arrangement places the Busch-Watchdog head and shoulders above all rigid designs. Another useful feature is its close-range detection function.

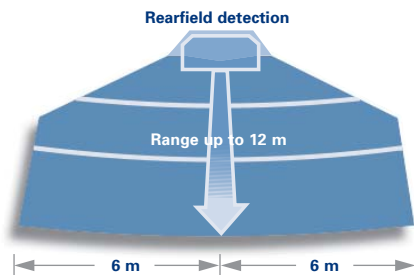
Focussed on a surveillance area of 90°, the Busch-Watchdog 90 ProfessionalLINE provides seamless protection for terraced houses, driveways, footpaths, multi-storey garages and entrances.

Through the rearfield detection function, guests and house occupants are greeted with light as soon as

they open the front door. And not only in this regard does the 90 ProfessionalLINE stand out for its comfort. Its intelligent design makes installation a matter of child's play: for ceiling or wall mounting, the large connection area ensures particularly easy installation.



It couldn't be more effective: with its narrow detection range of 90°, this Busch-Watchdog is ideal for the surveillance of terraced houses.





## High-precision area surveillance

Targeted surveillance  
wherever a specific  
area is to be monitored.  
The universal design of  
the Busch-Watchdog  
90 ProfessionalLINE  
allows its installation  
on a wall or ceiling  
without the need for  
additional components.



Rapid access to all functions.  
By means of the switch at  
the bottom, you can set  
precisely the dusk value at  
which the Busch-Watchdog  
90 ProfessionalLINE should  
respond.

# The corner specialist for difficult areas: Busch-Watchdog 280 ProfessionalLINE

If you are looking for security down to the obscurest corner: this Busch-Watchdog with its surveillance zone of 280° misses nothing. With a corner adapter, it can also be used to monitor corners.

Useful additional functions complete the wide range of features of this versatile state-of-the-art unit.

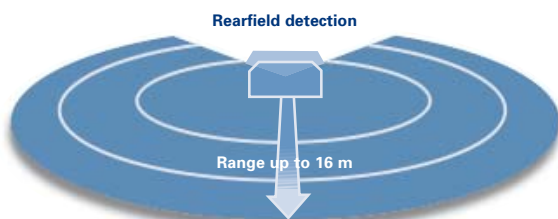
With its high-volume professional quality lens, the Busch-Watchdog 280 ProfessionalLINE allows seamless surveillance even of large areas and obscure corners. Thanks to its large surveillance zone of 280° and a range of up to 16 m, nobody can approach without being detected. Even in very poor weather conditions, the unit responds immediately. Its 3-axis adjustment ensures optimum adaptation to the local conditions.

And even when you are on vacation, your house is well protected: just activate the simulated presence via your infrared manual transmitter before you leave! The Busch-Watchdog 280 ProfessionalLINE then switches the outside light on every evening at dusk for a specified period.

3 different sensitivity level settings can be selected. This ensures flexible use, also indoors. And this Busch-

Watchdog can do even more: you can activate the continuous light via your manual transmitter – to spend a long evening undisturbed in your garden. And should you forget to deactivate it: after 4 hours the Busch-Watchdog automatically reverts to normal operation. The design of the new 280 ProfessionalLINE is as attractive as it is sturdy and practical. The large connection area makes it easier to install the unit on a wall or ceiling.

Wide-range security: large, obscure areas and corners are provided with optimum surveillance.



With its corner adapter, the Busch-Watchdog 280 ProfessionalLINE provides protection around the whole house.





## Wide field of vision, even round corners

The ideal solution wherever  
a wide area or a corner  
is to be guarded.

The Busch-Watchdog  
280 ProfessionalLINE has  
the largest surveillance  
range of all Busch-Watch-  
dogs and features many  
convenience settings.

# It switches on when it's needed: Busch-Watchdog 220 SelectLINE

This Busch-Watchdog works meticulously. With its wide surveillance angle of 220°, it can still be vertically adjusted directly to a precisely defined area. So it only reacts when it's really necessary: e.g. to people, but not small animals.

The wide-range, but vertically very precisely defined surveillance zone of the Busch-Watchdog 220 SelectLINE makes it particularly attractive for various applications in industrial and private use. With an installation height of e.g. 1.5 m – horizontally aligned – there is an approx. 1 m high area outside the detection zone. Possible movements within this area, e.g. small animals, therefore do not activate the unit. However, if a person approaches, the

220 SelectLINE reacts immediately.

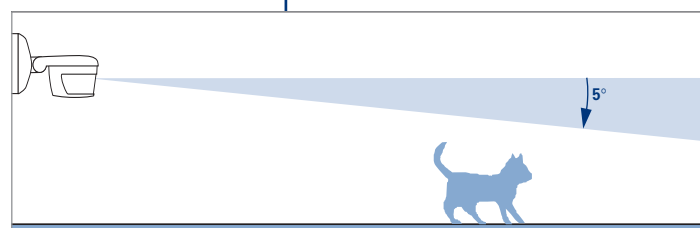
Beside horizontal mounting, which is suited primarily to the efficient surveillance of houses, properties, car-parks etc., the vertical mounting of the Busch-Watchdog 220 SelectLINE is also possible. This is advantageous in particular for many industrial applications. For example, warehouse aisles in large industrial sites can be precisely monitored so that specific shelf areas are only illuminat-

ed when a fork-lift truck approaches. With its 3-axis adjustment, the Busch-Watchdog 220 SelectLINE can be exactly adapted to local conditions. On account of its special function and area of application, the unit is not equipped with rearfield monitoring.



The curtain effect with vertical alignment is suited to the monitoring of high-shelf stores in warehouses, e.g. with fork-lift operations.

An advantage for outside monitoring: with a mounting height of 1.5 m with horizontal alignment, small animals are not detected.





## The precision talent for special applications

By means of the switch at the bottom, you can, for example, regulate the delay time of your Busch-Watchdog, i.e. the phase during which the light remains on after activation.



The precisely defined surveillance zone of the 220 SelectLINE is particularly suited to surveillance situations in functional buildings.

# The clever component for your intelligent house: Busch-Watchdog 220 ProfessionalLINE EIB

A small step toward the future, a large step toward comfort: with direct connection to your EIB network in your house, you can use the Busch-Watchdog 220 ProfessionalLINE EIB in an intelligent manner for many practical additional functions.

EIB, the European Installation Bus system, is the technological basis for the intelligent networking of your house using modern data communications. In this context, functions such as lighting, control of blinds and awnings, heating and hot-water circulation are regulated. By means of an easy-to-use control panel, you can access all areas connected to the EIB – and, for example, change specific settings according to your requirements.

The Busch-Watchdog 220 ProfessionalLINE EIB as an intelligent component can be perfectly integrated into the EIB network of your house. It thus offers not only all the features of

the Busch-Watchdog 220 ProfessionalLINE model, but also provides numerous additional advantages via the EIB bus. In combination with the control panel, further functions such as continuous light and simulated presence are possible. Conversely, via the control panel you can also receive signals from your Busch-Watchdog. So you will immediately be notified, for example, if a visitor turns up in your garden. Furthermore, you have the possibility of using the Busch-Watchdog 220 ProfessionalLINE EIB to set up special security and comfort zones in your house. For example, it can be combined with a surveillance system, for which it can perform a direct

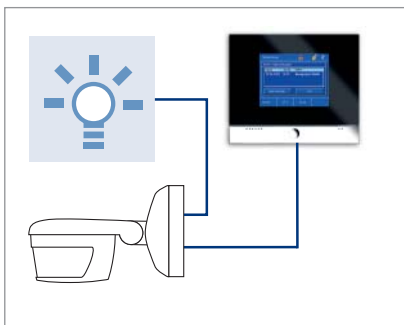
signal function. Or you can incorporate it in your network as a dusk switch. Then, when it gets dark specific light sources in your house are automatically activated and the blinds are let down.

All this is not some dream of the future, but mature, fully functional technology that is easily available at a reasonable price.

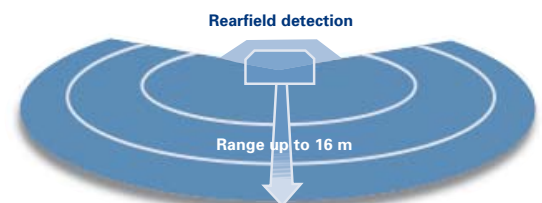


With an intelligently networked house, you can achieve maximum comfort and security in your home.

The Busch-Watchdog 220 ProfessionalLINE EIB can, for example, function as a dusk switch for regulating the lighting in your house.



Greater comfort and functionality is achieved by the use of a control panel. You can then change the settings of your Busch-Watchdog from any point in the house.







## The intelligent high-end solution with a future

As an integrated component of your networked house, the Busch-Watchdog 220 ProfessionalLINE EIB provides important comfort and security functions. Among other things, it can also be directly connected to your surveillance system.



A visitor appears: your Busch-Watchdog reports directly to your control panel.

# From lighting to air-conditioning – all perfectly adjusted to your requirements: Busch-Watchdog Präsenz tech

It is intelligent, user-friendly and versatile: The Präsenz tech ensures optimum and energy-efficient lighting control in your rooms.

Lighting systems, but also heating, air-conditioning and ventilation systems, can be intelligently controlled according to requirements by the presence indicator. Its detection capacity is superior to all conventional movement detectors.

The Busch-Watchdog Präsenz tech<sup>1</sup> becomes active even at the smallest movement. This means that connected consumers are available whenever they are needed, without affecting individual

habitual usage patterns or working procedures. 4 sensors and an optimised mirror/lens system guarantee a high detection density.

When you first switch on the Busch-Watchdog Präsenz tech, you can adjust the brightness values and the desired delay time to the ambient light conditions. And you can change these settings any time after that with an infrared remote control, which overwrites the current values with new ones.

The automatic functions can be overridden and connected consumers switched on and off directly with a conventional button or infrared remote control. The active radius of 8 m below the mounted unit can be extended at any time at little extra cost. Furthermore, it is possible to adjust the light steplessly to the respective situation via a memory switch control device or a universal central dimmer. Using the Busch-Watchdog Präsenz tech to control

heating, air-conditioning and ventilation is another intelligent additional option.



Everything perfectly regulated: the Busch-Watchdog Präsenz tech ensures economical lighting control. With simple remote control. Ideal for use e.g. in open-plan offices.



<sup>1</sup> Also available as an EIB version.



**Your control centre for inside**

The Busch-Watchdog  
Präsenz tech controls  
lighting, heating and air-  
conditioning intelligently  
and according to require-  
ments.

# Here you are automatically in the right light: Busch-Watchdog 180 UP Sensor Comfort II

Comfort to which you will soon become accustomed. At home, you often have so much to do and no extra hand available for the light switch! The infrared-controlled indoor Busch-Watchdogs "sense" your presence in the room and turn the light on automatically. They react as soon as they detect body heat.

A flush-mounted movement detector must be both attractive and effectively fulfil its intended purpose. A detector which is too flat would have a reduced performance range for purely physical reasons. The Busch-Watchdog 180 UP Sensor Comfort II<sup>1</sup> is exemplary in both form and function. Despite its compact design, it covers a range of 12 m to the front and 8 m to each side.

The Busch-Watchdogs of this generation thus have an amazingly wide area coverage, especially to the front.

Your wishes are the command of the Busch-Watchdog 180 UP Sensor Comfort II. The switch-off delay time and darkness values can be individually specified. With the easily accessible slide switch at the front of the Busch-Watchdog 180 UP Sensor Comfort II, you can select between Continuous Light, Automatic and Off settings. In addition to the version for lights with filament bulbs, a version which actuates other types of lamp, such as low-voltage halogen lamps or energy-saving lamps, is also available.

In combination with the Busch Universal Dimmer®, the Busch-Watchdog 180 UP does not switch the light off suddenly, but gradually dims it over a period of 60 seconds. To make sure that you are never unexpectedly left in the dark. Ideal for stairways and large, cluttered rooms.

Depending on the room layout, an additional, separate switch may be useful. For example when a room can be entered that is not covered by the Busch-Watchdog. For this eventuality, most flush-mounted units can be

fitted – or retrofitted – with a separate switch.



The user-friendly sensor technology with its large range ensures there is sufficient light whenever you need it.

The Comfort version of the Busch-Watchdog is available in the following ranges and colours:

**Busch-Duro 2000° SI/ SI Linear**



White



White

**Reflex SI/ SI Linear**



Alpine white

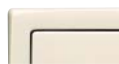


Alpine white

**future®**



Studio white



Ivory



Stone



Graphite

**future® linear**



Studio white



Ivory



Stone



Anthracite



Aluminium silver

**impuls**



Alpine white



Champagne metallic



Black gloss



Chrome/alpine white

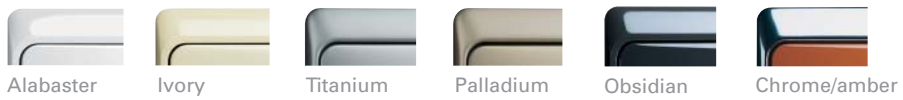
<sup>1</sup> Also available as an EIB version.



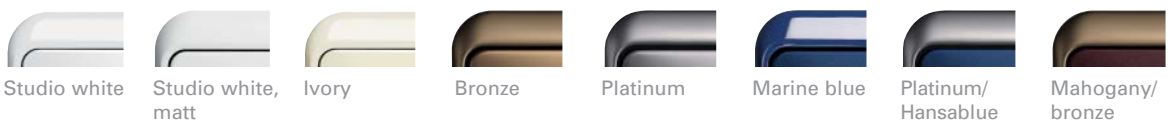
The Busch-Watchdogs  
with superior micro-processor-controlled electronics are both convenient and attractive.



**alpha exclusive®**



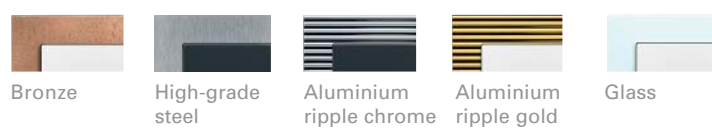
**alpha nea®**



**solo®**



**carat®**



# Simply clever – simply bright: Busch-Watchdog 180 UP Sensor Standard

The low-cost indoor version. The Busch-Watchdog 180 UP Sensor Standard performs the functions of a light switch.



Experience the convenience and quality of the Busch-Watchdogs even inside your house. Fitted in place of a normal light switch, the Busch-Watchdog 180 UP ensures that the light goes on automatically as soon as you enter a room – staircase,

hallway, bathroom or toilet – in which it is fitted. Your house becomes safer and you get added convenience. When you then leave the room, the Busch-Watchdog 180 UP automatically switches the light off again.

This also saves on your electricity bill. Its detection angle of 180° reaches as far as the walls either side.

The standard version in the form of an automatic switch is a cost-effective variant.



# It works in all weathers: Busch-Watchdog Allwetter 44®

Ideal outdoors and in rooms with water fittings. The Busch-Watchdog Allwetter 44® is water-protected and theft-proof.



A flush-mounted movement detector which is water-proof can perform outstanding service in damp rooms, on patios, in fact anywhere out of doors. The unit – fitted at switch height or higher (up to 2.5 m) – provides you with

light as soon as you enter the door.

The sensor is mounted with special screws and therefore protected to a large extent against theft and intentional resetting of the operational values.

This can be particularly useful in areas with public access.

The microprocessor-controlled electronics of the Busch-Watchdog immediately know when you need light in outdoor areas.



A member of  
the ABB Group

**Busch-Jaeger Elektro GmbH**  
P.O.Box  
58505 Lüdenscheid

Freisenbergstraße 2  
58513 Lüdenscheid  
Germany

**www.Busch-Jaeger.com**  
info.bje@de.abb.com

**Central sales service:**  
Phone: +49 (23 51) 9 56-0  
Fax: +49 (23 51) 9 56-13 80

Busch-Jaeger products are available from your electrical specialist