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SMART BUILDING

# Busch-Presence detectors

## Saving Energy with presence



# Modern light management

## Saving costs with innovation

Presence detectors automatically detect the presence of someone inside the room. Their precision is far superior to that of conventional movement detectors. Not only lighting systems but heating systems and air-conditioning systems can be controlled intelligently and efficiently with presence detectors. Empty rooms in which the lights are on and the air-conditioning runs at full power are now history. There is one presence detector for each need.



Office single



Office open plan  
with or without windows



Gym  
Sport facilities



Toilets

### The office champion

If a person works exclusively at a computer, only minimal movement is to be expected. Here detection needs to be especially accurate and precise.

On/off of lights depending on occupancy is only the beginning. Using constant lighting control, the required level of brightness can be achieved using the available “natural light” and the controlled addition of “artificial lighting”. Only the necessary amount of electricity is therefore consumed.

Blinds, as well as heating, ventilation and air-conditioning systems can be controlled efficiently with presence detectors. Practical experience show that the reduction of the room temperature by 1 °C can reduce the consumption of energy by 6%.

In open plan offices a master/slave function allows a difference brightness level between lights closer to the windows and the ones in the middle of the room without the installation of a second light sensor.

ABB offers a wide range of presence detectors to meet the requirements of all type of offices.

### For a spacious area

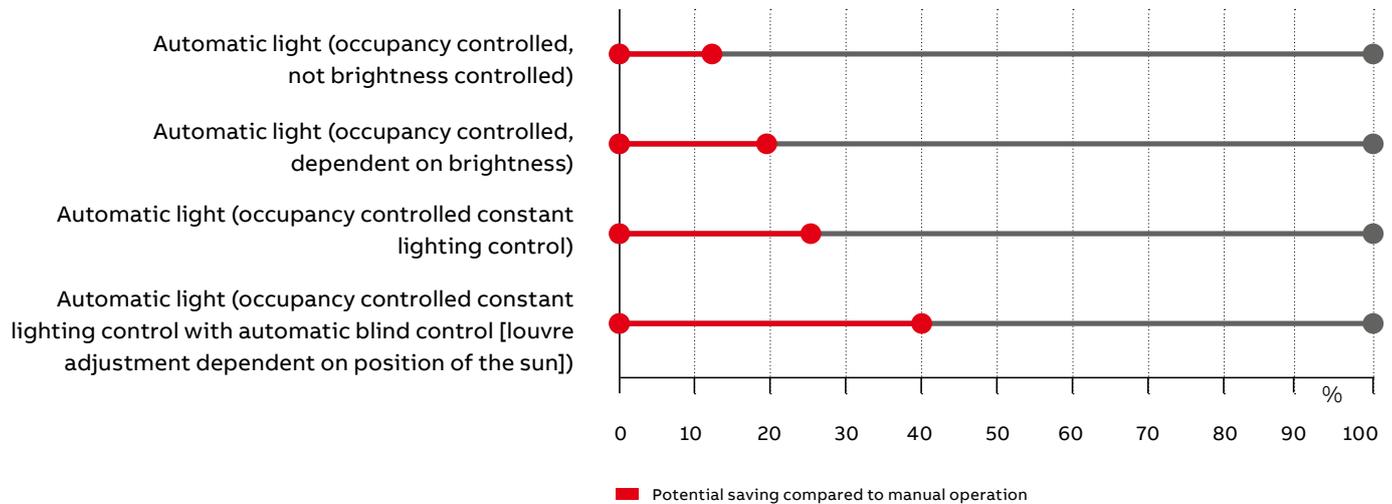
In spacious areas with high decks as gymnasiums and sport facilities, a light control depending on the occupancy (training, game with public, event, etc.) or depending on the outside brightness, can avoid unnecessary expenses.

In this areas the Busch-Watchdog must accurately detect movement from a great height and at the same time be protected by a protective basket against damage.

Same as before, heating, ventilation and air-conditioning systems can be controlled with presence detectors and help saving energy. For example, if the room temperature is reduced by 3 °C during prolonged absence, 18% of the energy can be saved.

The Busch-Watchdog Presence tech, Busch-Watchdog Presence tech DualLINE and the new Busch-Watchdog Sky KNX are ideal for these areas.

### Potential savings for automatic lighting control \*



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Class rooms  
Meeting rooms

#### In class or meeting rooms

During meetings, conferences or presentations, people tend to move very little over a period of time. Detection needs to be fast, accurate and precise.

In case of presentations with a projector, the lights can be dimmed down manually via a push-button, a remote control or a smartphone APP. If someone forgot to turn the lights off or let the air-conditioning full on, it will turn off after a time without detecting people. Unnecessary energy consumption and therefore cost of electricity is reduced.

The semi-automatic mode available in some detectors allows the lights to be initially activated with the press of a button and to remain active with constant movement in the room. This mode is especially useful in schools.

No matter whether KNX or conventional 230V wiring is used. ABB offers the right product for your installation.

#### Reduced energy consumption

Optimisation of energy efficiency in buildings means for us:

- Only use energy when it is really required
- Only use the amount of energy actually required
- Apply the energy that is used with the highest possible efficiency
- New conventional 230 V or KNX presence detectors designed to meet EN15232:2012

Lighting control is frequently accredited with a high level of potential savings for electrical energy. Not only the cost of electricity is reduced, but lamps are conserved and the investment pays for itself within just a few years.

\*Potential savings for automatic lighting control determined by the Biberach University of Applied Sciences with ABB i-bus® KNX components. Results included in the study "Energy saving and efficiency potential through the use of bus technology as well as room and building automation", undertaken in 2008 for ABB.

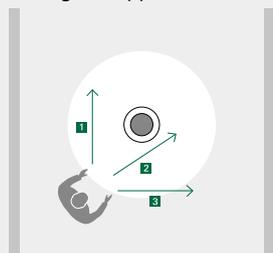
## Technical data

### Busch-Presence detectors 230 V



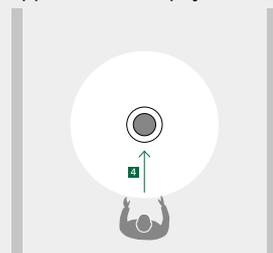
Products	Busch-Watchdog Presence tech BasicLINE mini	Busch-Watchdog Presence tech BasicLINE	Busch-Watchdog Presence tech BasicLINE Corridor	Busch-Watchdog Presence tech
Article number	6811 EB-500	6814 U-500	6818 U-500	6813-101-500 & 6401 U-102-500 6813-183-101-500 & 6401 U-102-500
Devicetype	Single device	Single device	Single device	Master <sup>1)</sup>
Half- / automatic / comfort automatic mode	- / yes / -	yes / yes / -	- / yes / -	- / yes / -
Detection range:				
Mounting height	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m
sitting	3.0 m / 3.5 m / -	4.0 m / 4.5 m / -	4.0 m / 4.5 m / -	8.0 m / 10.0 m / -
walking	5.0 m / 6.0 m / 8.0 m	7.0 m / 8.0 m / 10.0 m	24.0 m / 20.0 m / -	10.0 m / 12.0 m / 16.0 m
Sensitivity adjustment	yes	-	-	-
Number of channels	1	1	1	1
Load <sup>2)</sup> :				
LEDi	200 VA	200 VA	200 VA	200 VA
LEDs with konverter	200 VA	200 VA	200 VA	200 VA
Incandescent lamps	2000 W	2000 W	2000 W	2300 W
HV halogen lamps	1000 W	1000 W	1000 W	2300 W
LV halogen lamps with electr. transformer	2000 VA	2000 VA	2000 VA	2300 VA
Flourescent lamps	1000 VA	1000 VA	1000 VA	2300 VA
Electr. fan engines	-	-	-	-
Inrush current max.:	80 A / 20 ms	80 A / 20 ms	80 A / 20 ms	80 A / 20 ms
2-stage power-off (EN15232)	-	-	-	-
PIR / individually activated	1 / -	1 / -	4 / -	4 / -
2 light bands / HVAC / backboard light	- / - / -	- / - / -	- / - / -	- / - / -
Intern brightness sensor	yes	yes	yes	yes
Remote controllable	-	-	yes, via IR service-remote control 6843	yes, via IR remote control 6010-25
False ceilings via spring brackets	yes	yes	yes	-
Surface mounted	-	-	yes	yes
Flush-mounting	-	yes	yes	yes
Mounting depth (fm box / ceiling mount):	180 mm	28 mm / 41 mm	18 mm / 48 mm	32 mm / -
Mounting dimensions:	32 mm	65 mm	64 mm	-
Visible height:	10 mm	31 mm	57 mm	51 mm
Protection class (sensor / acktuator)	IP 40 / IP 20	IP 40	IP 40 / IP 54 <sup>3)</sup>	IP 20

Optimum detection at lateral or diagonal approach.



- 1 Lateral approach to the detector.
- 2 Diagonal approach to the detector.
- 3 Lateral approach to the detector.

Reduced detection at frontal approach due to physical reasons.



- 4 Frontal approach to the detector.

#### Technical details

The Busch-Presence detectors consist of two parts lense and PIR sensor. The maximum detection range depends on the mounting site and ambient conditions.



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Busch-Watchdog Presence tech	Busch-Watchdog Presence tech DualLINE	Busch-Watchdog Presence tech DualLINE	Busch-Presence detector Compact, relay	Busch-Presence detector Universal, relay
6813-101-500 & 6402 U-500 6813-183-101-500 & 6402 U-500	6813/11-24-500 & 6402 U-500 6813/11-183-500 & 6402 U-500	6813/11-24-500 & 6550 U-101-500 6813/11-183-500 & 6550 U-101-500	6819/60-24-500 6819/60-183-500	6819/30-24-500 6819/30-183-500
Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>
- / yes / -	yes / yes / -	yes / yes / -	yes / yes / -	yes / yes / -
2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m
8.0 m / 10.0 m / -	8.0 m / 10.0 m / -	8.0 m / 10.0 m / -	5.0 m / 6.5 m / -	8 m / 10 m / -
10.0 m / 12.0 m / 16.0 m	10.0 m / 12.0 m / 16.0 m	10.0 m / 12.0 m / 16.0 m	6.5 m / 8.0 m / 10.5 m	10 m / 12 m / 16 m
-	-	-	-	-
2	2	1	1	1
200 VA	200 VA	-	200 VA	200 VA
200 VA	200 VA	200 VA	200 VA	200 VA
2300 W	2300 W	-	2300 W	2300 W
2300 W	2300 W	-	2300 W	2300 W
2300 VA	2300 VA	-	2300 VA	2300 VA
2300 VA	2300 VA	700 VA	2300 VA	2300 VA
-	-	-	-	-
80 A / 20 ms	80 A / 20 ms	-	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs
-	-	-	-	-
4 / -	4 / -	4 / -	4 / -	4 / -
- / yes / -	yes / - / -	- / - / -	- / - / -	- / - / -
yes	yes	yes	yes	yes
yes, via IR remote control 6010-25	yes, via IR remote control 6010-25	yes, via IR remote control 6010-25	yes, via IR service-remote control 6843	yes, via IR service-remote control 6843
-	-	-	yes	yes
yes	yes	yes	-	-
yes	yes	yes	-	-
32 mm / -	32 mm / -	32 mm / -	- / 49 mm	- / 49 mm
-	-	-	Ø 68 mm	Ø 68 mm
51 mm	51 mm	51 mm	23 mm	23 mm
IP 20	IP 20	IP 20	IP 40	IP 40

<sup>1)</sup> Slave version available

<sup>2)</sup> at 230 V~ main voltage

<sup>3)</sup> only with surface mount box

## Technical data

### Busch-Presence detectors 230 V



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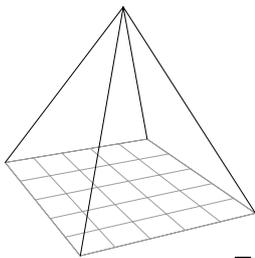


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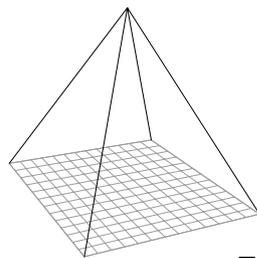


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Products	Busch-Presence detector Compact, e-contact	Busch-Presence detector Universal, e-contact	Busch-Presence detector Corridor, relay	Busch-Presence detector Universal BT, relay
Article number	6817/62-24-500 6817/62-183-500	6817/32-24-500 6817/32-183-500	6819/50-24-500 6819/50-183-500	6819/31-24-500 6819/31-183-500
Devicetype	Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>
Half- / automatic / comfort automatic mode	yes / yes / -	yes / yes / -	yes / yes / -	yes / yes / yes
Detection range:				
Mounting height sitting	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m
walking	5.0 m / 6.5 m / -	8 m / 10 m / -	- / - / -	8 m / 10 m / -
	6.5 m / 8.0 m / 10.5 m	10 m / 12 m / 16 m	24 m x 2,5 m / 24 m x 3 m / 24 m x 3 m	10 m / 12 m / 16 m
Sensitivity adjustment	-	-	-	yes
Number of channels	1	1	1	1
<b>Load<sup>2)</sup>:</b>				
LEDi	3 - 200 VA	3 - 200 VA	200 VA	200 VA
LEDs with konverter	3 - 200 VA	3 - 200 VA	200 VA	200 VA
Incandescent lamps	3 - 200 W	3 - 200 W	2300 W	2300 W
HV halogen lamps	3 - 200 W	3 - 200 W	2300 W	2300 W
LV halogen lamps with electr. transformer	3 - 200 VA	3 - 200 VA	2300 VA	2300 VA
Flourescent lamps	3 - 200 VA	3 - 200 VA	2300 VA	2300 VA
Electr. engines	-	-	-	-
Inrush current max.:	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs
2-stage power-off (EN152321)	-	-	-	-
PIR / individually activated	4 / -	4 / -	4 / -	4 / 4
2 light bands / HVAC / backboard light	- / - / -	- / - / -	- / - / -	- / - / -
Intern brightness sensor	yes	yes	yes	yes
Remote controlable	yes, via IR service-remote control 6843	yes, via IR service-remote control 6843	yes, via IR service-remote control 6843	yes, Smartphone APP via Bluetooth
False ceilings via spring brackets	yes	yes	yes	yes
Surface mounted	-	-	-	-
Flush-mounting	-	-	-	-
Mounting depth (fm box / ceiling mount):	- / 36 mm	- / 36 mm	- / 49 mm	- / 49 mm
Mounting dimensionsβ:	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Visible height:	23 mm	23 mm	27 mm	23 mm
Protection class (sensor / acktuator)	IP 40	IP 40	IP 40	IP 40



01



02

#### There is no better way.

The detection system consisting of four sensors and mirrors is far superior to conventional movement sensors. Even the smallest movement is reliably detected and triggers a response.

01 Detection system of conventional movement detectors

02 Busch-Presence detection system

<sup>1)</sup> Following the new European Standard EN 15232 "Energy performance of buildings – Impact of Building Automation, Controls and Building Management"

<sup>2)</sup> IR remote control to be ordered separately

<sup>3)</sup> Via installation housing e.g. Kaiser HaloX-O art.no. 1290-40 with corresponding cover plates



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Busch-Presence detector Universal BT, e-contact	Busch-Presence detector Corridor BT, relay	Busch-Presence detector Universal BT, e-contact with sealing ring	Busch-Presence detector Universal BT, DALI	Busch-Presence detector Corridor BT, DALI
6819/33-24-500 6819/33-183-500	6819/51-24-500 6819/51-183-500	6817/93-24-500 6817/93-183-500	6819/35-24-500 6819/35-183-500	6819/55-24-500 6819/55-183-500
Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>
yes / yes / yes	yes / yes / yes	yes / yes / yes	yes / yes / yes	yes / yes / yes
2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m
8 m / 10 m / -	- / - / -	8 m / 10 m / -	8 m / 10 m / -	- / - / -
10 m / 12 m / 16 m	24 m x 2,5 m / 30 m x 3 m / 30 m x 3 m	10 m / 12 m / 16 m	10 m / 12 m / 16 m	24 m x 2,5 m / 30 m x 3 m / 30 m x 3 m
yes	yes	yes	yes	yes
1	1	1	2	2
3 - 200 VA	200 VA	3 - 200 VA	200 VA	200 VA
3 - 200 VA	200 VA	3 - 200 VA	200 VA	200 VA
3 - 200 W	2300 W	3 - 200 W	1380 W	1380 W
3 - 200 W	2300 W	3 - 200 W	1380 W	1380 W
3 - 200 VA	2300 VA	3 - 200 VA	1380 VA	1380 VA
3 - 200 VA	2300 VA	3 - 200 VA	1380 VA	1380 VA
-	-	-	1380 VA	1380 VA
165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs
-	-	-	yes	yes
4 / 4	4 / 4	4 / 4	4 / 4	4 / 4
- / - / -	- / - / -	- / - / -	- / yes / yes	- / yes / yes
yes	yes	yes	yes	yes
yes, Smartphone APP via Bluetooth	yes, Smartphone APP via Bluetooth	yes, Smartphone APP via Bluetooth	yes, Smartphone APP via Bluetooth	yes, Smartphone APP via Bluetooth
yes	yes	yes	yes	yes
-	-	-	-	-
-	-	-	-	-
- / 36 mm	- / 49 mm	- / 36 mm	- / 60 mm	- / 60 mm
Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
23 mm	27 mm	23 mm	23 mm	27 mm
IP 40	IP 40	IP 41	IP 40	IP 40

<sup>1)</sup> Slave version available<sup>2)</sup> at 230 V~ main voltage

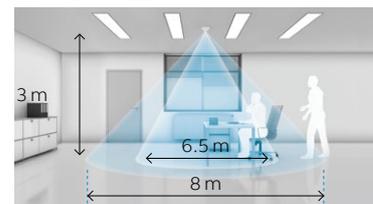
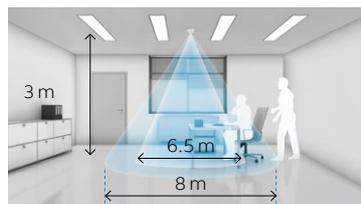
## Efficiency at the workplace.

Busch-Presence detectors KNX.

# KNX

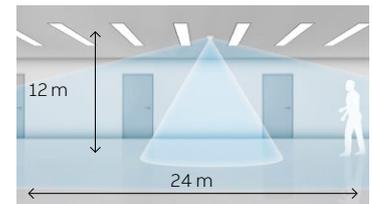
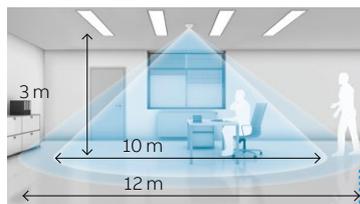
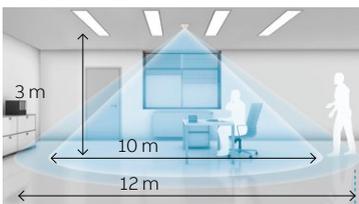


Products	Busch-Presence detector mini KNX	Busch-Presence detector mini premium KNX
Article number	6131/20-24-500 6131/20-183-500	6131/21-24-500 6131/21-183-500
Integrated bus coupler	yes	yes
Detection range:		
Mounting height	2.5m / 3.0m / 4.0m	2.5m / 3.0m / 4.0m
sitting	5.0m / 6.5m / -	5.0m / 6.5m / -
walking	6.5m / 8.0m / 10.5m	6.5m / 8.0m / 10.5m
Number of channels	2	4
Channels per operating mode:		
movement detector	2	4
constant light switch	2x2	4x2
constant light controller	-	2x2
monitoring function	2	4
2-stage power-off (EN15232 <sup>1</sup> )	yes (only movement detector)	yes (movement detector + constant light controller)
PIR/ individually activated	4	4
Integrated RTC + sensor	-	yes
Heating / Cooling / ventilation function	-	yes
Intern brightness sensor	yes	yes
External brightness sensor inputs	2	2
Programming mode via IR remote control 6010-25-500 <sup>2</sup>	-	yes
IR channels	-	14 pair / 24 single and programming mode
Logic channel	-	5
False ceilings via spring brackets	yes	yes
Surface mounted	IP 20 (6131/29-xx-500)	IP 20 (6131/29-xx-500)
Flush-mounting	yes <sup>3</sup>	yes <sup>3</sup>





<b>Busch-Presence detector KNX</b>	<b>Busch-Presence detector premium KNX</b>	<b>Busch-Watchdog Sky KNX</b>
6131/30-24-500 6131/30-183-500	6131/31-24-500 6131/31-183-500	6131/40-24-500
yes	yes	yes
2.5m / 3.0m / 4.0m 8m / 10m / - 10m / 12m / 16m	2.5m / 3.0m / 4.0m 8m / 10m / - 10m / 12m / 16m	6.0m / 12.0m 18.0m / 24.0m
2	4	2
2 2x2 - 2	4 4x2 2x2 4	2 2 - 2
yes (only movement detector)	yes (movement detector + constant light controller)	yes (only movement detector)
4	4	4
-	yes	-
-	yes	-
yes	yes	yes
2	2	2
-	yes	yes
-	14 pair / 24 single and programming mode	Only programming mode
-	5	-
yes	yes	yes
IP 20 (6131/39-xx-500)	IP 20 (6131/39-xx-500)	IP 20 (6131/39-xx-500)
yes <sup>3</sup>	yes <sup>3</sup>	yes <sup>3</sup>



## Intelligent technology

in detail



	<b>Busch-Presence detector Compact, relay</b>	<b>Busch-Presence detector Universal, relay</b>
Article no.	studio white matt 6819/60-24-500 aluminium silver 6819/60-183-500	studio white matt 6819/30-24-500 aluminium silver 6819/30-183-500
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 6,5 m, walking persons: up to Ø 8 m. Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 48 sectors with 496 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>Dimensions (HxWxD): 94 x 94 x 72 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 23 mm</p>        	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 72 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 23 mm</p>        



	<b>Busch-Presence detector Compact, e-contact</b>	<b>Busch-Presence detector Universal, e-contact</b>
Article no.	studio white matt 6817/62-24-500 aluminium silver 6817/62-183-500	studio white matt 6817/32-24-500 aluminium silver 6817/32-183-500
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With electronic switch contact for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 6,5 m, walking persons: up to Ø 8 m. Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 48 sectors with 496 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With electronic switch contact for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>     </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>     </p>

## Intelligent technology

in detail



	<b>Busch-Presence detector Corridor, relay</b>	<b>Busch-Presence detector Universal BT, relay</b>
Article no.	studio white matt 6819/50-24-500 aluminium silver 6819/50-183-500	studio white matt 6819/31-24-500 aluminium silver 6819/31-183-500
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): rectangular: Frontal toward the detector at a max. of 14 m x 3 m (at a max. of 7 m x 3 m per side). Crosswise toward the detector at a max. of 24 m x 3 m (max. of 12 m x 3m per side).</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 92 sectors with 368 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 76 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 27 mm</p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 72 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 23 mm</p>



	<b>Busch-Presence detector Universal BT, e-contact</b>	<b>Busch-Presence detector Corridor BT, relay</b>
Article no.	studio white matt 6817/33-24-500 aluminium silver 6817/33-183-500	studio white matt 6819/51-24-500 aluminium silver 6819/51-183-500
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With electronic switch contact for LED operation.</p> <p>With selectable soft ON/OFF function.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): rectangular: Frontal toward the detector at a max. of 20 m x 3 m (at a max. of 10 m x 3 m per side). Crosswise toward the detector at a max. of 30 m x 3 m (max. of 15 m x 3m per side).</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 92 sectors with 368 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>       </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 76 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 27 mm</p> <p>        </p>

## Intelligent technology in detail



	<b>Busch-Presence detector Universal BT, e-contact with sealing ring</b>	<b>Busch-Presence detector Universal BT, DALI</b>
Article no.	studio white matt 6817/93-24-500 aluminium silver 6817/93-183-500	studio white matt 6819/35-24-500 aluminium silver 6819/35-183-500
Description	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With electronic switch contact for LED operation.</p> <p>With selectable soft ON/OFF function.</p> <p>Detection range (for installation height of 3 m): circular:</p> <p>Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For regulating and switching of DALI operating devices that depend on brightness and movement.</p> <p>For DALI broadcast operation (central telegram).</p> <p>Supplies the required voltage for additional DALI operating units and controllers.</p> <p>Suitable for up to 45 DALI operating devices.</p> <p>With additional switching output for the activation of heating, air conditioning and ventilation or for switching additional loads (e.g. blackboard light).</p> <p>Configurable up to the complete deactivation of the DALI control gear.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With selectable soft ON/OFF function.</p> <p>Detection range (for installation height of 3 m): circular:</p> <p>Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With time-controlled basic illumination function.</p> <p>With selectable burn-in function for fluorescent lamps.</p> <p>With 2-step automatic switch-off (according to EnEV / EN 15232).</p> <p>With time-controlled night-light function.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>      </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x DALI &amp; 1x normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 83 mm</p> <p>Mounting depth: 60 mm</p> <p>Visible height: 23 mm</p> <p> <b>DALI</b>      </p>




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**Busch-Presence detector Corridor BT, DALI**


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Article no.	studio white matt 6819/55-24-500 aluminium silver 6819/55-183-500
Description	<p>Master presence detector with mixed light measurement. For regulating and switching of DALI operating devices that depend on brightness and movement. For DALI broadcast operation (central telegram). Supplies the required voltage for additional DALI operating units and controllers. Suitable for up to 45 DALI operating devices. With additional switching output for the activation of heating, air conditioning and ventilation or for switching additional loads (e.g. blackboard light). Configurable up to the complete deactivation of the DALI control gear. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With selectable soft ON/OFF function. Detection range (for installation height of 3 m): rectangular: Frontal toward the detector at a max. of 20 m x 3 m (at a max. of 10 m x 3 m per side). Crosswise toward the detector at a max. of 30 m x 3 m (max. of 15 m x 3m per side). Extension of the detection range by means of master/slave combination. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible. With time-controlled basic illumination function. With selectable burn-in function for fluorescent lamps. With 2-step automatic switch-off (according to EnEV / EN 15232). With time-controlled night-light function. With selectable presence simulation when no present. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 92 sectors with 368 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors. Switch-off delay: approx. 1 min - 30 min adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Outputs: 1x DALI &amp; 1x normally open/closed contact (adjustable), potential-bound Detection angle: 360 ° Brightness limit value: 5 Lux - 2.000 Lux Mounting height: 2 m - 4 m 94 x 94 x 87 mm Mounting depth: 60 mm Visible height: 27 mm</p>



## Intelligent technology

in detail



	<b>Busch-Presence detector Compact, slave</b>	<b>Busch-Presence detector Universal, slave</b>
Article no.	studio white matt 6819/68-24-500 aluminium silver 6819/68-183-500	studio white matt 6819/38-24-500 aluminium silver 6819/38-183-500
Description	Slave presence detector for extension of the detection range by means of master presence detectors. Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 6,5 m, walking persons: up to Ø 8 m. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 48 sectors with 496 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.	Slave presence detector for extension of the detection range by means of master presence detectors. Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 72 sectors with 640 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.
Technical data	Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 72 mm Mounting depth: 49 mm Visible height: 23 mm	Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 72 mm Mounting depth: 49 mm Visible height: 23 mm



	<b>Busch-Presence detector Corridor, slave</b>	<b>Busch-Presence detector Universal, slave, DALI</b>
Article no.	studio white matt 6819/58-24-500 aluminium silver 6819/58-183-500	studio white matt 6819/39-24-500 aluminium silver 6819/39-183-500
Description	Slave presence detector for extension of the detection range by means of master presence detectors. Detection range (for installation height of 3 m): Frontal toward the detector at a max. of 14 m x 3 m (at a max. of 7 m x 3 m per side). Crosswise toward the detector at a max. of 24 m x 3 m (max. of 12 m x 3 m per side). Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 92 sectors with 368 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.	DALI slave presence detector for extension of the detection range by means of DALI master presence detectors. For the supply of operating voltage via the DALI master. The communication with the DALI master is carried out via the DALI interface. Detection range (for installation height of 3 m): circular: Seated persons: max Ø 10 m, walking persons: max Ø 12 m. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 72 sectors with 640 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.
Technical data	Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 76 mm Mounting depth: 49 mm Visible height: 27 mm	Rated voltage: 9,5 ... 22,5 V= Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 72 mm Mounting depth: 49 mm Visible height: 23 mm

**DALI**



<b>Busch-Presence detector Corridor, slave, DALI</b>	
Article no.	studio white matt 6819/59-24-500 aluminium silver 6819/59-183-500
Description	<p>DALI slave presence detector for extension of the detection range by means of DALI master presence detectors.</p> <p>For the supply of operating voltage via the DALI master.</p> <p>The communication with the DALI master is carried out via the DALI interface.</p> <p>Detection range (for installation height of 3 m):            Frontal toward the detector at a max. of 14 m x 3 m (at a max. of 7 m x 3 m per side). Crosswise toward the detector at a max. of 24 m x 3 m (max. of 12 m x 3m per side).</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Surveillance density: 92 sectors with 368 switching segments.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 9,5 ... 22,5 V=</p> <p>Detection angle: 360 °</p> <p>Mounting height: 2 m - 4 m</p> <p>Dimensions (HxWxD): 94 x 94 x 76 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 27 mm</p> <p><b>DALI</b></p>

## Intelligent technology in detail



	<b>Busch-Watchdog Presence tech BasicLINE mini</b>	<b>Busch-Watchdog Presence tech BasicLINE</b>
Article no.	6811 EB-500	6814 U-500
Description	<p>For switching lighting systems that depend on brightness and movement.</p> <p>Low mounting height due to separate sensor/actuator concept.</p> <p>Continuously variable detection sensitivity.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Surveillance density: 19 sectors with 76 switching segments.</p> <p>Switch-off delay: approx. 1 sec - 15 min or short-time pulse adjustable.</p>	<p>For switching lighting systems that depend on brightness and movement.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through push-button input.</p> <p>Adaptation of the detection range possible using the included masking elements.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With detection display in test mode.</p> <p>Mounting possibility in combination with built-in installation boxes and device sockets.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 32 sectors with 128 switching segments.</p> <p>Switch-off delay: approx. 5 sec - 30 min or short-time pulse adjustable.</p>
Technical data	<p>Rated voltage: 230 V~, +10 % / -10 %</p> <p>Rated frequency: 50 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Detection range (installation height 3m, up to 6m in diameter).</p> <p>Brightness limit value: 10 Lux - 1000 Lux , Daytime operation</p> <p>Mounting height: 2 m - 5 m</p> <p>Mounting depth: 77 mm</p> 	<p>Rated voltage: 230 V~, +10 % / -10 %</p> <p>Rated frequency: 50 Hz/60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Dimensions (HxWxD): 111 mm x 111 mm x 59 mm</p> <p>Detection angle: 360 °</p> <p>Detection range (for installation height of 2.5 m), circular, up to 7 m in diameter.</p> <p>Brightness limit value: 10 Lux - 2000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>Mounting depth: 41 mm</p> 



	<b>Busch-Watchdog Presence tech BasicLINE Corridor</b>	<b>Protective basket</b>
Article no.	6818 U-500	6898
Description	<p>For switching lighting systems that depend on brightness and movement.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>Adaptation of the detection range possible using the included masking elements.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With detection display in test mode.</p> <p>With automatic movement detection.</p> <p>With automatic sensitivity adaptation.</p> <p>Mounting possibility in combination with built-in installation boxes and device sockets.</p> <p>Ceiling installation using included dust protection socket.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 215 sectors with 860 switching segments.</p> <p>Switch-off delay: approx. 10 sec - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Use outdoors possible due to combination with surface-mounted housing 6888.</p>	<p>For ceiling presence detectors.</p> <p>For Busch-Watchdog Presence tech (6813-101-500), For Busch-Watchdog Presence tech DualLINE 6813/11-xxx-500.</p> <p>For Busch-Watchdog Presence tech BasicLINE 6814 U-500.</p> <p>For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U-500.</p> <p>For all Busch-Smoke alarm detectors ProfessionalLINE.</p> <p>For all Busch-Heat alarm detectors ProfessionalLINE.</p> <p>Busch-Smoke alarm detector 6831-84 and 6832-84.</p> <p>Also applicable in connection with surface-mounted housings 6885-xxx-500 and 6888.</p> <p>For Busch-Presence detector mini KNX 6131/20-xxx-500 and 6131/21-xxx-500.</p> <p>For Busch-Presence detector KNX 6131/30-xxx-500 and 6131/31-xxx-500.</p> <p>Busch-Watchdog Sky KNX 6131/40-24-500.</p> <p>Dimensions: (LxWxD): 180 mm x 180 mm x 98 mm</p>
Technical data	<p>Rated voltage: 230 V~, +10 % / -10 %</p> <p>Rated frequency: 50 Hz/60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Dimensions (HxWxD): 110 mm x 110 mm x 70 mm</p> <p>Detection angle: 360 °</p> <p>Detection range (for installation height of 2.5 m, circular, up to 24 m in diameter).</p> <p>Brightness limit value: 10 Lux - 2000 Lux</p> <p>Mounting height: 2 m - 3 m</p> <p>Mounting depth: 48 mm</p> <p></p>	



	<b>Surface-mounting box</b>	<b>IR service remote control</b>
Article no.	6888	6843
Description	<p>For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U-500.</p> <p>For surface mounting and increase of the protection type.</p> <p>Protection class (Device): IP 54</p> <p>Temperature range (Device): -20 °C to 45 °C</p> <p>Dimensions: (LxWxD): 106 mm x 106 mm x 26 mm</p>	<p>For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U-500.</p> <p>The following functions/settings can be implemented.</p> <p>Continuous light on/off (8 h).</p> <p>Setting of the brightness limit value.</p> <p>Setting of the current ambient light value as the brightness limit value.</p> <p>Setting of switch-off delay or short-time pulse.</p> <p>Saving and duplication of the saved values.</p> <p>Activate test mode.</p> <p>Reset to factory default settings.</p> <p>Activation/deactivation of the button lock.</p> <p>Power supply: lithium button cell battery Type CR2032.</p> <p>Range: frontal 3 m</p> <p>Rated voltage: 3 V</p> <p>Dimensions: (LxWxD): 106 mm x 50 mm x 8 mm</p>

## Intelligent technology in detail



	<b>Busch-Watchdog Presence tech</b>	<b>Busch-Watchdog Presence tech DuallINE</b>
Article no.	studio white matt 6813-101-500 aluminium silver 6813-183-101-500	studio white matt 6813/11-24-500 aluminium silver 6813/11-183-500
Description	<p>For switching and dimming lighting systems that depend on brightness and movement.</p> <p>For constant light regulation in combination with Dimmer insert 6524 U-500, 6526 U-500, 6593 U-500 or 6550 U-101-500.</p> <p>For heating/air-conditioning/ventilation adjustment in combination with serial insert 6402 U.</p> <p>For relay inserts 6401 U-102, 6402 U and 6812 U-101.</p> <p>For MOS-Fet insert 6804 U-101.</p> <p>For extension insert 6805 U.</p> <p>Remote control possible via IR mobile remote control 6010-25-500.</p> <p>Intelligent turn-on delay.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 adjustable.</p>	<p>For switching and dimming lighting systems that depend on brightness and movement.</p> <p>For constant light regulation in combination with Dimmer insert 6524 U-500, 6526 U-500, 6593 U-500 or 6550 U-101-500.</p> <p>For the control of 2 independent light strips in combination with 2gang 1way unit 6402 U.</p> <p>For semiautomatic and fully automatic operation.</p> <p>For relay inserts 6401 U-102, 6402 U and 6812 U-101.</p> <p>For MOS-Fet insert 6804 U-101.</p> <p>For extension insert 6805 U.</p> <p>Remote control possible via IR mobile remote control 6010-25-500.</p> <p>Switch-off delay: approx. 1 sec - 20 min or short-time pulse adjustable.</p>
Technical data	<p>Dimensions (HxWxD): 110 mm x 110 x 51 mm</p> <p>Detection angle: 360 °</p> <p>Detection range (for installation height 2.5 m) circular, 8 m diameter.</p> <p>Brightness limit value: 5 Lux - 1000 Lux</p> <p>Mounting height: 2 m - 8 m</p>	<p>Intelligent turn-on delay.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Dimensions (HxWxD): 110 mm x 110 mm x 51 mm</p> <p>Detection angle: 360 °</p> <p>Detection range (for installation height 2.5 m) circular, 8 m diameter.</p> <p>Brightness limit value: 5 Lux - 1000 Lux</p> <p>Mounting height: 2 m - 8 m</p>



	<b>Surface-mounting box</b>	<b>IR remote control</b>
Article no.	studio white matt 6885-500 aluminium silver 6885-183-500	6010-25-500
Description	<p>For the installation of a flush-mounted insert in combination with the Busch-Watchdog Presence tech 6813/(11)-xx-(101) or the Busch-Watchdog Presence tech KNX 6131/10-xxx or Busch-Watchdog Presence tech DuallINE KNX 6131/11-xxx.</p> <p>Protection class (Device): IP 20</p> <p>Dimensions: (LxWxD): 110 mm x 110 mm x 39 mm</p>	<p>Battery-supplied infrared remote control.</p> <p>For IR receiver (60xx).</p> <p>For KNX presence detectors and KNX sensors with infrared interface.</p> <p>For switching/dimming up to 10 loads in 2 groups (1-5/6-10).</p> <p>Programming and selection of 2 MEMO memories possible per group.</p> <p>Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery.</p> <p>Range: 15 m</p> <p>Rated voltage: 6 V-</p>



KNX



KNX

	<b>Busch-Presence detector KNX, 12 meters</b>	<b>Busch-Presence detector premium KNX, 12 meters</b>
Article no.	alpine white 6131/30-24-500 aluminium silver 6131/30-183-500	alpine white 6131/31-24-500 aluminium silver 6131/31-183-500
Description	<p>With 2 channels.</p> <p>Targeted for connection and disconnection of lights bands depending on the room brightness.</p> <p>Regulation in response to the movement possible.</p> <p>Using the device as presence and/or movement detectors.</p> <p>Detectors application with 2 power off stages.</p> <p>Detectors application with integrated monitoring function.</p> <p>Constant light switch with up to two independent channels.</p> <p>Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.</p> <p>With integrated KNX bus coupler.</p>	<p>With 4 channels.</p> <p>For dimming/brightness to a defined value.</p> <p>HVAC function for controlling heating and/or cooling systems ventilation systems.</p> <p>Detectors application with 2 power off stages.</p> <p>Detectors application with integrated monitoring function.</p> <p>Constant light controller with up to two independent channels.</p> <p>Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room.</p> <p>Integrated object room temperature controller.</p> <p>24 freely programmable IR channels (blue and/or white)</p> <p>Incl. 5 logic channels (logic gates, gates, delay and staircase lighting)</p> <p>Evaluation via internal brightness sensor.</p> <p>Weighting of up to 2 external brightness values and the internal brightness sensor possible.</p> <p>The programming button can be activated with the IR transmitter 6010-25-500.</p> <p>With integrated KNX bus coupler.</p>
Technical data	<p>KNX bus connection terminal</p> <p>ETS4 native application</p> <p>Dimensions (HxWxD): 91 mm x 91 mm x 45 mm</p> <p>Detection range (for mounting height 2.5 m, 3 m and 4 m) circular.</p> <p>Seated persons Ø: 8 m, 10 m and 14 m.</p> <p>Walking persons Ø: 10 m, 12 m and 16 m.</p> <p>Brightness limit value: 1 Lux - 1000 Lux.</p> <p>Mounting depth: 22 mm</p> <p>Visible height 23 mm.</p>	<p>KNX bus connection terminal</p> <p>ETS4 native application</p> <p>Dimensions (HxWxD): 91 mm x 91 mm x 45 mm</p> <p>Detection range (for mounting height 2.5 m, 3 m and 4 m) circular</p> <p>Seated persons Ø: 8 m, 10 m and 14 m.</p> <p>Walking persons Ø: 10 m, 12 m and 16 m.</p> <p>Brightness limit value: 1 Lux - 1000 Lux.</p> <p>Mounting depth: 22 mm</p> <p>Visible height 23 mm.</p>



	<b>Surface-mounting box</b>	<b>IR remote control</b>
Article no.	alpine white 6131/39-24-500 aluminium silver 6131/39-183-500	6010-25-500
Description	<p>For Busch-Presence detector KNX and Busch-Watchdog Sky KNX.</p> <p>For installing a Busch-Presence detector KNX 6131/30-xxx(-500) or a Busch-Presence detector premium KNX 6131/31-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500).</p> <p>Protection class (Device): IP 20</p> <p>Dimensions (HxWxD): 91 mm x 91 mm x 33 mm</p>	<p>Battery-supplied infrared remote control.</p> <p>For IR receiver (60xx).</p> <p>For KNX presence detectors and KNX sensors with infrared interface.</p> <p>For switching/dimming up to 10 loads in 2 groups (1-5 / 6-10).</p> <p>Programming and selection of 2 MEMO memories possible per group.</p> <p>Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery.</p> <p>Range: 15 m</p> <p>Rated voltage: 6 V-</p>

## Intelligent technology in detail



**KNX**

<b>Busch-Watchdog Sky KNX, 24 meters</b>	
Article no.	alpine white 6131/40-24-500
Description	<p>With 2 channels.            Targeted for connection and disconnection of lights bands depending on the room brightness.            Regulation in response to the movement possible.            Use of the device as a movement detector.            Detectors application with 2 power off stages.            Detectors application with integrated monitoring function.            Constant light switch with up to two independent channels.            Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.            With integrated KNX bus coupler.            The programming button can be activated with the IR transmitter 6010-25-500.</p>
Technical data	<p>KNX bus connection terminal            ETS4 native application.            Dimensions (HxWxD): 91 mm x 91 mm x 45 mm            Detection range (for mounting height 6 m and 12 m) circular.            Walking persons Ø: 18 m, 24 m.            Brightness limit value: 1 Lux - 1000 Lux.            Mounting depth: 22 mm            Visible height 23 mm.</p>



	<b>Surface-mounting box</b>	<b>IR remote control</b>
Article no.	alpine white 6131/39-24-500 aluminium silver 6131/39-183-500	6010-25-500
Description	<p>For Busch-Presence detector KNX and Busch-Watchdog Sky KNX.            For installing a Busch-Presence detector KNX 6131/30-xxx(-500) or a Busch-Presence detector premium KNX 6131/31-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500).            Protection class (Device): IP 20            Dimensions (HxWxD): 91 mm x 91 mm x 33 mm</p>	<p>Battery-supplied infrared remote control.            For IR receiver (60xx).            For KNX presence detectors and KNX sensors with infrared interface.            For switching/dimming up to 10 loads in 2 groups (1-5 / 6-10).            Programming and selection of 2 MEMO memories possible per group.            Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery.            Range: 15 m            Rated voltage: 6 V-</p>



	<b>Busch-Presence detector mini KNX, 8 meters</b>	<b>Busch-Presence detector mini premium KNX, 8 meters</b>
Article no.	alpine white 6131/20-24-500 aluminium silver 6131/20-183-500	alpine white 6131/21-24-500 aluminium silver 6131/21-183-500
Description	<p>With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area. With integrated KNX bus coupler.</p>	<p>With 4 channels. For dimming/brightness to a defined value. HVAC function for controlling heating and/or cooling systems and ventilation systems. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light controller with up to two independent channels. Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room. Integrated object room temperature controller. 24 freely programmable IR channels (blue and/or white) Incl. 5 logic channels (logic gates, gates, delay and staircase lighting) Evaluation via internal brightness sensor. Weighting of up to 2 external brightness values and the internal brightness sensor possible. The programming button can be activated with the IR transmitter 6010-25-500. With integrated KNX bus coupler.</p>
Technical data	<p>KNX bus connection terminal ETS4 native application Dimensions (HxWxD): 80mm x 80 mm x 45 mm Detection range (for mounting height 2.5 m, 3 m and 4 m) circular. Seated persons Ø: 5 m, 6.5 m and 9 m. Walking persons Ø: 6.5 m, 8 m and 10.5 m. Brightness limit value: 1 Lux - 1000 Lux. Mounting depth: 29 mm Visible height 16 mm.</p>	<p>KNX bus connection terminal ETS4 native application Dimensions (HxWxD): 80mm x 80 mm x 45 mm Detection range (for mounting height 2.5 m, 3 m and 4 m) circular. Seated persons Ø: 5 m, 6.5 m and 9 m. Walking persons Ø: 6.5 m, 8 m and 10.5 m. Brightness limit value: 1 Lux - 1000 Lux. Mounting depth: 29 mm Visible height 16 mm.</p>



	<b>Surface-mounting box</b>	<b>IR remote control</b>
Article no.	alpine white 6131/29-24-500 aluminium silver 6131/29-183-500	6010-25-500
Description	<p>For Busch-Presence detector mini KNX For installing a Busch-Presence detector mini KNX 6131/20-xxx-500 or a Busch-Presence detector mini premium KNX 6131/21-xxx-500. Protection class (Device): IP 20 Dimensions (HxWxD): 80 mm x 80 mm x 35 mm</p>	<p>Battery-supplied infrared remote control. For IR receiver (60xx). For KNX presence detectors and KNX sensors with infrared interface. For switching/dimming up to 10 loads in 2 groups (1-5 / 6-10). Programming and selection of 2 MEMO memories possible per group. Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery. Range: 15 m Rated voltage: 6 V-</p>

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