## Description



- Presence detector (PIR)
- Mixed light measurement
- Automatic control of lighting and HVAC as well as room monitoring function
- Square detection area for corridors
- Light switch output (relay, 230 V )
- Presence switch output (relay, potential-free)
- Choice of fully or semi automatic operation
- Sensor or switch options for manual switching
- The rectangular detection area covers an area of up to 30 metres in corridors and enables safe and simple planning
- Fully or semi-automatic: In "Fully automatic" mode, the lighting switches on and off automatically according to presence and light. In "Semi-automatic" mode, it must be switched on manually and it switches off automatically
- Manual override: The lighting can be manually switched on or off at any time via sensors or switches
- Room/corridor sensor function: In the "corridor" setting, the detector functions as a staircase time switch and it cannot be switched off manually
- Master/slave parallel switching: Up to ten detectors can be connected with each other to extend the detection area. The master switches the load. All other detectors merely provide presence information as slaves
- Device can be connected as master or slave
- Lighting control with light threshold value and self-learning switch-off delay
- Pulse function for staircase time switch
- HVAC control with switch-on and switch-off delay
- Room monitoring with selective movement detection
- The switching behaviour of the presence detector is controlled by presence and light
- The self-learning switch-off adjusts to occupants' behaviour
- The pulse function is for controlling a staircase time switch
- The presence detector has a mixed light measurement and is suitable for switching the following types of lamp: Fluorescent lamps (FL/PL), halogen and incandescent lamps as well as LEDs
- Presence switch contact for HVAC control: The switching behaviour of the potential-free contact is only controlled by presence
- The switch-on delay prevents instantaneous switch on. The contact only closes on completion of the switch-on delay
- Master/master parallel switching: Up to ten detectors can be connected with each other to control several lighting groups. Each master controls its lighting group according to its own brightness measurements. Presence is detected by all the detectors
- The sensitivity of the presence switch output is reduced in the "monitoring" position. The contact indicates the presence of people with a high degree of certainty
- Test operation mode checks the detection area and installation
- The parameters can either be set using the potentiometer or via the optional service remote control SendoPro 868-A
- A maximum of 10 detectors can be switched at the same time


## Technical data

| Operating voltage | 230 V AC |
| :--- | :--- |
| Frequency | 50 Hz |
| Recommended installation height | $2-3,5 \mathrm{~m}$ |
| Installation type | Ceiling installation |
| Power consumption | $\sim 0,7 \mathrm{~W}$ |
| Light measurement | Mixed light measurement |
| Setting range brightness | $10-1500 \mathrm{Ix}$ |

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| Light switch-off delay | Impuls $(0,5 \mathrm{~s}), 10 \mathrm{~s}-20 \mathrm{~min}$ |
| :--- | :--- |
| Type of contact light | Relay 230 V |
| Lamps | Incandescent/halogen lamps, fluorescent lamps, Energy saving lamps, LEDs |
| Resistive load | 1400 VA |
| Incandescent/halogen lamp load | 1200 W |
| Compact and flourescent lamps | $960 \mathrm{VA}(\cos \mathrm{f}=0,8), 580 \mathrm{VA}(\cos \mathrm{f}=0,5)$ |
| Compact and flourescent lamps <br> (Number of electronic ballasts) | $10 \times(1 \times 58 \mathrm{~W}), 5 \times(2 \times 58 \mathrm{~W}), 16 \times(1 \times 36 \mathrm{~W}), 8 \times(2 \times 36 \mathrm{~W}), 16 \times$ (smaller <br> than 36 W$)$ |
| LED lamp | $<2 \mathrm{~W}=25 \mathrm{~W}$ or $>2 \mathrm{~W}=70 \mathrm{~W}$ |
| Switch-on delay presence | $0 \mathrm{~s}-10 \mathrm{~min}$ |
| Presence switch-off delay | $10 \mathrm{~s}-120 \mathrm{~min}$ |
| Type of contact presence | Relay potential-free |
| Switching capacity presence | $50 \mathrm{~W} \mathrm{(220} \mathrm{~V} \mathrm{DC),50VA(250V} \mathrm{AC)} \mathrm{min}. \mathrm{0,5mV/10mA}$ |
| Switching output | Potential-free |
| Type of connection | Screw terminals |
| Max. cable cross section | $2 \times 2,5 \mathrm{~mm}{ }^{2}$ |
| Mounting plate | $70 \times 70 \mathrm{~mm}$ |
| Size of concealed housing | $\varnothing 55 \mathrm{~mm}(\mathrm{NIS}, \mathrm{PMI})$ |
| Ambient temperature | $+0{ }^{\circ} \mathrm{C} \ldots+50{ }^{\circ} \mathrm{C}$ |
| Type of protection | IP 40 |

## Connection example



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## Detection range

| Mounting height <br> (A) | Head on to (r) | Diagonally (t) |
| :--- | :--- | :--- |
| 2 m | $56 \mathrm{~m}^{2} \mid 16 \mathrm{~m} \times 3,5 \mathrm{~m} \pm$ <br> $1,5 \mathrm{~m}$ | $56 \mathrm{~m}^{2} \mid 16 \mathrm{~m} \times 3,5 \mathrm{~m} \pm 1,5 \mathrm{~m}$ |
| $2,5 \mathrm{~m}$ | $72 \mathrm{~m}^{2} \mid 18 \mathrm{~m} \times 4 \mathrm{~m} \pm 1,5$ <br> m | $88 \mathrm{~m}^{2} \mid 22 \mathrm{~m} \times 4 \mathrm{~m} \pm 1,5 \mathrm{~m}$ |
| 3 m | $90 \mathrm{~m}^{2} \mid 20 \mathrm{~m} \times 4,5 \mathrm{~m} \pm$ <br> $1,5 \mathrm{~m}$ | $135 \mathrm{~m}^{2} \mid 30 \mathrm{~m} \times 4,5 \mathrm{~m} \pm 1,5$ <br> m |
| $3,5 \mathrm{~m}$ | $100 \mathrm{~m}^{2} \mid 20 \mathrm{~m} \times 5 \mathrm{~m} \pm 1,5$ <br> m | $150 \mathrm{~m}^{2} \mid 30 \mathrm{~m} \times 5 \mathrm{~m} \pm 1,5 \mathrm{~m}$ |
| 4 m | $100 \mathrm{~m}^{2} \mid 20 \mathrm{~m} \times 5 \mathrm{~m} \pm 2$ <br> m | $150 \mathrm{~m}^{2} \mid 30 \mathrm{~m} \times 5 \mathrm{~m} \pm 2 \mathrm{~m}$ |
| $4,5 \mathrm{~m}$ | $100 \mathrm{~m}^{2} \mid 20 \mathrm{~m} \times 5 \mathrm{~m} \pm 2$ <br> m | $150 \mathrm{~m}^{2} \mid 30 \mathrm{~m} \times 5 \mathrm{~m} \pm 2 \mathrm{~m}$ |
| 5 m | $100 \mathrm{~m}^{2} \mid 20 \mathrm{~m} \times 5 \mathrm{~m} \pm 2,5$ <br> m | $150 \mathrm{~m}^{2} \mid 30 \mathrm{~m} \times 5 \mathrm{~m} \pm 2,5 \mathrm{~m}$ |
| 6 m | $100 \mathrm{~m}^{2} \mid 20 \mathrm{~m} \times 5 \mathrm{~m} \pm 2,5$ <br> m | $150 \mathrm{~m}^{2} \mid 30 \mathrm{~m} \times 5 \mathrm{~m} \pm 2,5 \mathrm{~m}$ |



## Scale drawings



## Accessories

Surface frame compact

- Article number: 9070514 Details • www.theben.de



## QuickSafe

- Article number: 9070531 Details *ww.theben.de



## SendoPro 868-A

- Article number: 9070675

Details • www.theben.de
 Ceiling installation box 73A

- Article number: 9070917

Details • www.theben.de

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- Article number: 9070515

Details $>$ www.theben.de



Data sheet

Article number: 2010090
Product selection

| Installation type | Channel | Operating voltage | Colour | Type | Article number |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Ceiling installation | Light \| Presence | 230 V AC | Pure white (similar <br> to RAL 9010) | compact passage | 2010090 |
| Ceiling installation | Light \| Presence | 230 V AC | Silver (similar to <br> RAL 9006) | compact passage <br> SR | 2010807 |
| Ceiling installation | Light \| Presence | 230 V AC | Black (similar to <br> RAL 9005) | compact passage <br> BK | 2010806 |

