

thevios 3 OCC LUM V-R

Ceiling sensor

thermokon[®]
HOME OF SENSOR TECHNOLOGY

Data sheet

Subject to technical changes
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thevios[®]



» APPLICATION

The thevios 3 is a ceiling sensor designed to capture a wide range of sensor data. This data can be used, among other applications, for the intelligent control of lighting and HVAC systems based on occupancy and ambient conditions.

The option of flush-mounted or surface-mounted installation allows for flexible integration into a variety of indoor environments. The thevios 3 is already a future-proof solution for improving energy efficiency, comfort and productivity.

» TYPES AVAILABLE

Ceiling sensor – active

- thevios 3 OCC LUM V-R
- thevios 3 OCC R

» INTENDED USE

Ceiling/room sensor for motion detection and daylight-dependent lighting control. It must not be used in conjunction with devices that directly or indirectly serve health- or life-safety purposes, or whose operation could pose a risk to people, animals or property.

Intended solely for its designated use. Unauthorized modifications or alterations are prohibited.

» SAFETY INFORMATION – CAUTION



The installation and mounting of electrical devices may only be carried out by an authorized and qualified electrician. Devices with a mains connection may only be connected when the supply cable is de-energized!

Furthermore, the following apply:

- Laws, standards and regulations
- The generally accepted state of the art at the time of installation
- The technical specifications and operating instructions for the device

» PRODUCT CONFORMITY



Declaration of Conformity

Declarations of Conformity for our products can be found on our website:
<https://www.thermokon.de/direct/categories/thevios-3>

» NOTES ON DISPOSAL



The symbol of the crossed-out wheeled bin indicates that the product or any removable batteries must not be disposed of with household or commercial waste.

Within the EU, you are legally obliged to ensure that the product is disposed of separately and appropriately in accordance with the applicable national regulations of your country.

Alternatively, please contact your supplier or Thermokon Sensortechnik GmbH.

Further information can be found at: www.thermokon.com

» TECHNICAL DATA

Housing	thevios 3, PC V0, pure white
Degree of protection	IP30 in accordance with DIN EN 60529
Ambient conditions	-20..+70 °C, max. 85 %, non-condensing
Installation	Ceiling installation, flush-mounted in a standard flush-mounted box (Ø = 60 mm) or surface-mounted (with optional surface-mounted enclosure)
Measured variables	Motion, brightness

Power supply	15..24 V DC (±10 %) oder 24 V AC (±10 %) SELV
Power consumption	Max. 0,4 W
Electrical connection	Spring-loaded terminal, max. 1,5 mm ²
Outputs (digital)	Motion, changeover contact (NO, C, NC), potential-free, max. 24 V, 1 A, with adjustable switch-off delay on the device
Outputs (analog)	Brightness, 0..10 V, min. load 10 kΩ
Cable entry	Open at rear

» Motion (OCC)

PIR detection range	Detection angle: 96°; at a ceiling height of 2.7 m, this results in a circular detection area of approx. Ø = 6.0 m.
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» Brightness (LUM)

Brightness measurement range	0..1000 lux
Brightness accuracy	± (15 lux +8 % of measured value), field calibration via BMS/controller required

» INSTALLATION INSTRUCTIONS

Installation height

The installation height has a direct influence on the detection range of the motion detector. The optimum installation height is 2.70 m. Any deviation from this height will result in a change in the detection range.

Fixed installation

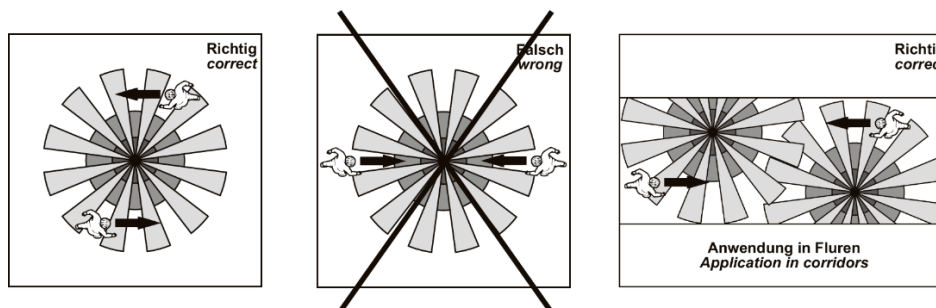
The motion detector must be mounted on a solid surface, as any movement of the detector may cause false triggering.

Distance from switched luminaires

To prevent the motion detector from unintentionally switching on the luminaire, the luminaire should not be installed within the detection range of the motion detector. The motion detector should also not be installed above a luminaire. The heat radiation emitted by the luminaire may affect the function of the motion detector and may cause false triggering.

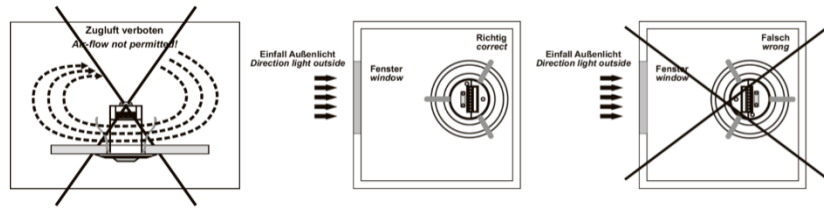
Installation perpendicular to the direction of movement

For optimum motion detection, the detector should be installed so that movement crosses the detection zones as perpendicularly as possible. Installation locations where objects to be detected move directly towards the motion detector will result in a significantly reduced detection range.



Distance from sources of interference

To prevent false triggering, sources of interference such as radiators, lamps, air outlets from air-conditioning systems, etc. should be located outside the detection range. Direct sunlight should also be avoided.



Feedback when motion is detected

Motion detected by the sensor is indicated by the integrated indicator LED on the plug-in circuit board (lights up for approx. 2 sec.).
Note: The indicator LED operates independently of the switch-off delay set for the relay output. During device initialization (power reset), the indicator LED and relay output are switched on for approx. 45 sec.

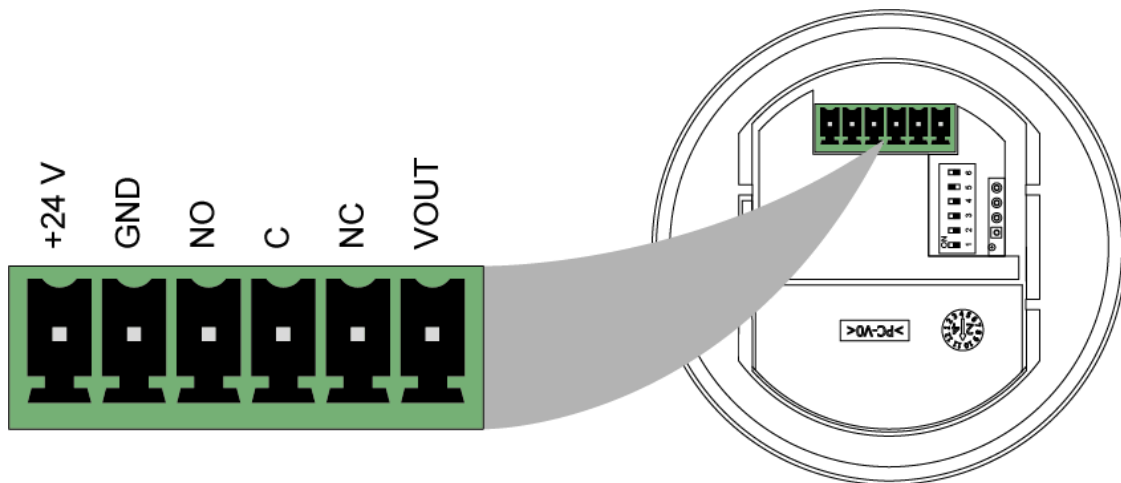
» FURTHER DOCUMENTS



Installation instructions:

<https://www.thermokon.de/direct/alterra-base/mimes/get/2e0d6aba3e3a3cd10>

» WIRING DIAGRAM

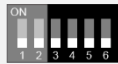
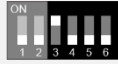
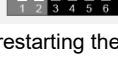


» CONFIGURATION VIA DIP SWITCHES

» PIR sensitivity

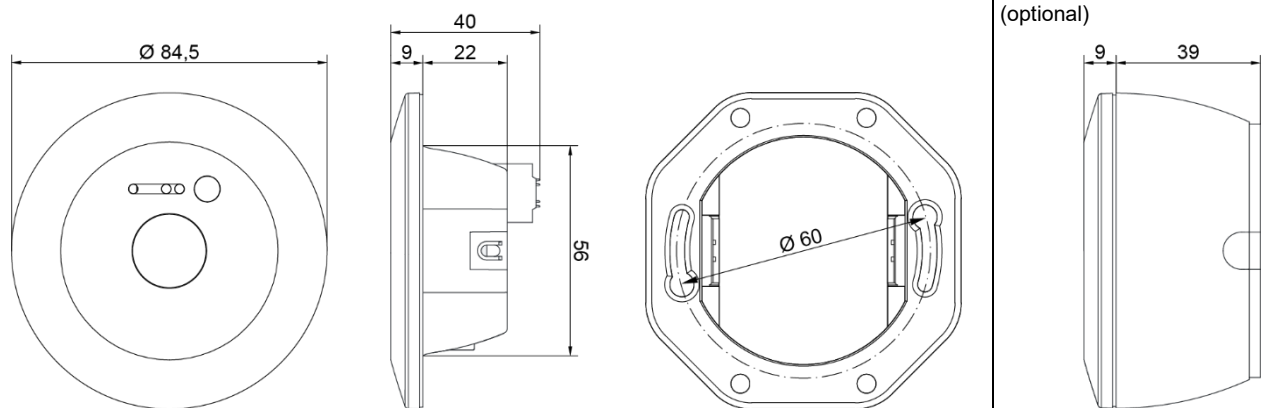
Sensitivity		DIP switch	
		1	2
Medium		OFF	OFF
Low		ON	OFF
High		OFF	ON

» PIR switch-off delay

Switch-off delay (s)		DIP switch			
		3	4	5	6
600		OFF	OFF	OFF	OFF
1		ON	OFF	OFF	OFF
2		OFF	ON	OFF	OFF
4		ON	ON	OFF	OFF
8		OFF	OFF	ON	OFF
15		ON	OFF	ON	OFF
30		OFF	ON	ON	OFF
60		ON	ON	ON	OFF
120		OFF	OFF	OFF	ON
240		ON	OFF	OFF	ON
360		OFF	ON	OFF	ON
480		ON	ON	OFF	ON
900		OFF	OFF	ON	ON
1200		ON	OFF	ON	ON
1500		OFF	ON	ON	ON
1800		ON	ON	ON	ON

Changes are applied without restarting the device.

» DIMENSIONS (MM)



» ACCESSORIES (OPTIONAL)

Wall plugs and screws (2 pcs. each)
Surface-mounted enclosure for thevios 3 / thevios Sat

Item no.: 102209
Item no.: 837279