Camera multi-sensor system.
Coming close to the future.
HPD 2 KNX

It has taken the world's best specialists and universities over 5 years to develop this system that analyses images directly in the sensor. With the HPD 2 KNX – HPD stands for "Human Presence Detection" – STEINEL makes a quantum leap in sensor technology. Because the HDP 2 KNX is the world's first presence detector that is not only capable of detecting whether people are present but can also count them. No matter whether they are moving about or not. At the heart of the person sensor is innovative camera technology that uses a highly sensitive optical system in combination with a complex mathematical algorithm. The HPD 2 KNX also has integrated temperature and air-humidity sensors, opening up completely new possibilities in building automation. Light, heating and air-conditioning can finally be controlled in line with demand for the number of people present in a room.

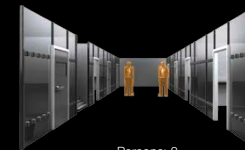Persons: 3

Persons: 2

Advantage no. 1: Zone definition
The HPD 2's detection zone can be confined to a precisely defined area. This makes it possible, for instance, to mask out interference from foot traffic passing through. A maximum of 5 different zones can be selected when setting up the system.

Advantage no. 2: Detecting persons
For the first time it is now possible to detect a person without the involvement of any movement. Although not moving, persons are detected no matter whether they are sitting or standing. With detection as precise as this, erroneous triggering is virtually ruled out. Lighting stay-ON times can also be kept to a minimum.
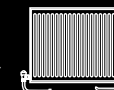
Advantage no. 3: Counting people
Not only can the HPD 2 detect people but it can also see how many of them are present. Its reach of 15 m makes it suitable for conference rooms as well as corridors. Powerful IR LEDs even provide this function in the dark. The output is by KNX twisted pair.

System integration
via KNX twisted pair.

Light
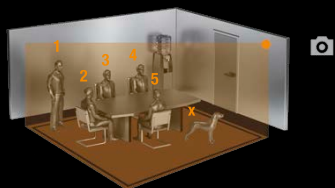Automatic lighting in real time – without a stay-ON time.

Radiators
Automatic control based on number of people.

Ventilation
Automatic control based on number of people.

The only camera sensor
of its kind in the world.

A person is a person –
whether moving or not, whether sitting or standing.
HPD 2 KNX

The human presence detector HPD 2 is the next chapter in sensor systems. A sensor that accurately detects persons and their numbers. Persons sitting or standing, even if they aren't moving. It has taken the world's best specialists and universities over 5 years to develop this system that analyses images directly in the sensor. This now opens up completely new application options in building automation.

110° sensor max. 15 m	2.5 - 6 m	2 - 2000 lux	1 - 255 min	movement	presence	brightness	temperature	air humidity	number of people	functional warranty

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Output of tempera-
ture and air humidity
measured.

Integrated, advanced image
recognition and real-time processing.
150,000 positive images and 7 million
negative images.

15 m reach with
5 precise, definable
detection zones.

Technical specifications
Dimensions: (H x W x D): 156 x 86 x 52 mm
Power supply: KNX bus voltage
Sensor technology: Camera technology
Angle of coverage: 110°
Reach: 15 m

Communication objects HPD 2
KNX twisted pair:
Light channel with constant-lighting control per zone
Number of people present for up to 5 zones
Threshold control possible
Output of temperature, air humidity and light level

Presence output
Output of the values for all zones accumulated
Twilight setting: 2 - 2000 lux
Time setting: 1-255 min

HPD 2 KNX
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