

This presentation was live at:



Smart Buildings

SHOW

18-19 October 2023 • ExCel London

Why PIRs are an essential part of a KNX system

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What is a PIR?



- **P**assive **I**nfra**R**ed sensor
- Detects the infrared heat given off by people

Where do we currently see PIRs?

- Alarm sensors
- Security lights (outdoor)
- Automatic doors





- Universal control standard
- 100's of manufacturers
1000s of compatible products.

The background of the slide is a photograph of a ceiling. On the left, there are white, curved architectural moldings. To the right, a dark grey or black ceiling surface is visible, featuring a small, circular, metallic-looking PIR (Passive Infrared) sensor. A large, white, triangular graphic element is positioned on the right side of the image, partially overlapping the ceiling and the text area.

GIVE PIRS A CHANCE

LIVING ROOM ELEGANCE

Smart Home and Building solutions.
Global. Secure. Connected.

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THE GREAT OUTDOORS

Smart Home and Building solutions.
Global. Secure. Connected.

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MEETING ROOM MAGIC

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PIR detection during the **day**
will bring the room lights on.

PIR detection during the **night**
will just bring low level dimmed
lighting on.

No PIR detection for 4 hours
will set the room HVAC to
standby.



OCCUPANCY (FULL AUTO)

Sensor is used to switch ON when someone enters the space, and after timeout turn OFF.

ABSENCE

Lights etc are still manually turned on, but after a configured length of no presence the PIR can be used to turn OFF only.

MANUAL OVERRIDE

System can be commissioned to optionally have a manual override mode where sensor will do nothing.

HEATING

Only heat the rooms people are in.

COOLING

Don't leave power hungry Aircon on in empty rooms

LIGHTING

Turn on lighting on entry and turn off when left vacant.

AV

Power off screens / audio when room is no longer in use

MORE...

If it can be switched on / off why not consider how it can be controlled by a PIR.

PLAN

Plan where PIRs should be installed at the early stage of design.

AUTOMATION

Carefully consider the intended automation the PIRs should trigger.

FINE TUNE

Automations can be tuned after install if needed by your control system specialist.

The background of the slide is a photograph of a light blue ceiling. A horizontal wooden beam with a natural wood grain pattern runs across the middle of the frame. Below the beam, a single circular recessed light fixture is illuminated, casting a warm glow. The left side of the image is partially obscured by a black diagonal shape that serves as a background for the logo and the 'THANK YOU' text.

THANK YOU



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9-10 October 2024 • ExCeL London

We look forward to seeing you in 2024