theben HTS

PlanoCentro A-KNX
presence detector flush mounting

PlanoCentro A-KNX

① Mixed light measurement
② Presence detection
③ Artificial light
④ Push-button/switch for manual lighting control
⑤ HVAC / monitoring
⑥ Available daylight
⑦ Indirect lighting
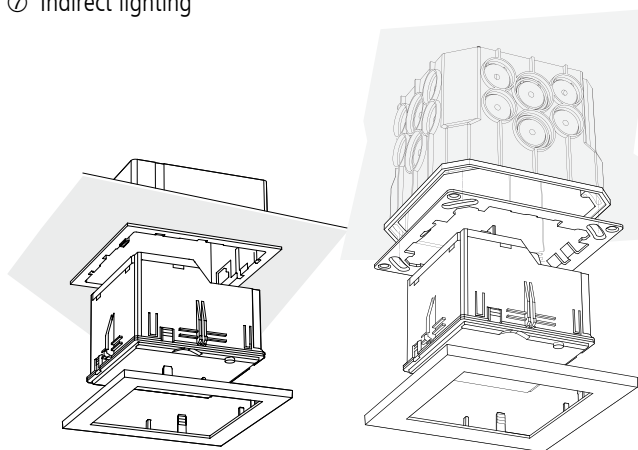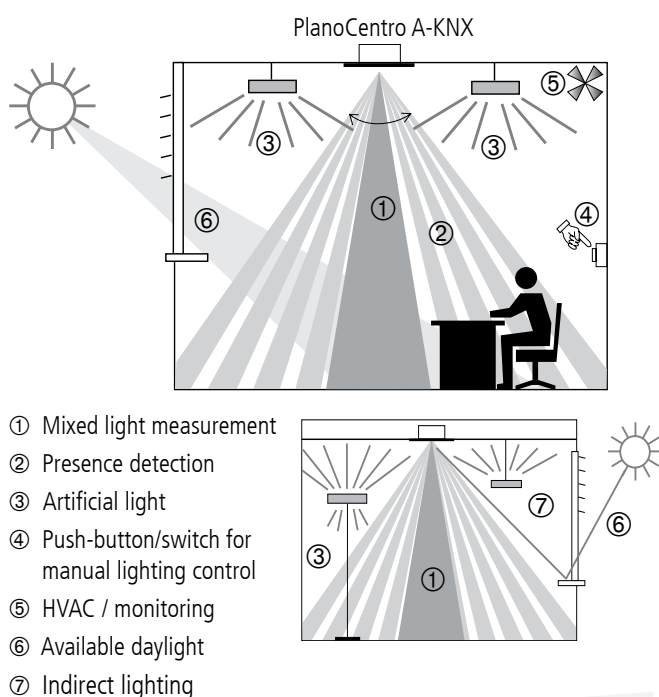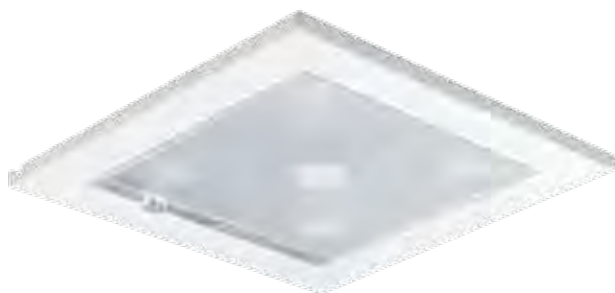
False ceiling installation (false ceilings)

Flush-mounted installation (set into concrete ceiling)

Application description

(i) For a detailed description of the functions, see the "KNX handbook - Application description PlanoCentro A-KNX"

Product Features

♦ Passive infra-red presence detector for ceiling installation and flush-mounting
♦ Square 360° detection range (up to 100m², 10 x 10 m) enables reliable and straightforward planning
♦ Flat design with exchangeable cover frame in a range of shapes, colours and materials
♦ Mixed light measurement
♦ Suitable for fluorescent lamps, compact fluorescent lamps, halogen, incandescent lamps and LEDs
♦ Adjustable sensitivity
♦ Channels light to control of one or two lighting groups
  • Switching or constant light control with stand-by function
  • Fully or semi-automatic function mode
  • Short presence; Reduced switch-off delay time in case of a short presence
♦ Channel presence with switch-off delay and switch-on delay time and send values
♦ Channel monitoring with manipulation protection
♦ Channel brightness (Lux)
♦ Parameter can be read and settings configured remotely using the SendoPro remote control. Parameter settings made via ETS
♦ Set brightness level via bus object
♦ Scene functionality (8-bit scenes)
♦ Parallel circuit operation of several presence detectors (master-slave, master-master) without logic components
♦ Management remote control SendoPro 868-A (optional)
♦ User remote control theSenda S (optional)

Switching or control of two lighting groups

The PlanoCentro A-KNX switches or controls one or two lighting groups. In switching mode (ON/OFF) it controls switch actuators. An ON telegram is sent if it is dark **and** someone is present. An OFF telegram is sent if it is light **or** no one is present.

In controlled operation (constant light control) dimming actuators are controlled. If it is dark and persons are present, the artificial light is controlled at a constant brightness level depending on the daylight.

The second lighting group is switched or controlled with an adjustable brightness difference.

Brightness Measurement

The PlanoCentro A-KNX incorporates a mixed light measurement system which is sensitive to artificial light.

Switching: with indirect lighting, the artificial light at the detector's mounting location must not exceed 2000 Lux (brightness threshold >200 Lux). If the brightness set point value is set to On, channel A light only switches on dependent on presence (the brightness measurement is switched off).

Constant light control: the detector must be placed in a position where it only detects the artificial light which it controls itself. Artificial light controlled by other detectors or manually operated working lights influence the detector's brightness measurement. The point where the detector is installed becomes the reference for the lighting level in the room. Artificial light should not be allowed to fall directly on the detector.

Installation types

The PlanoCentro A-KNX is available in installation sets for ceiling mounting and flush-mounted installation. The housing conforms with the standard EN 60670-1 (glow wire tested 850°).

Detection range (mounting height 3.0 m)
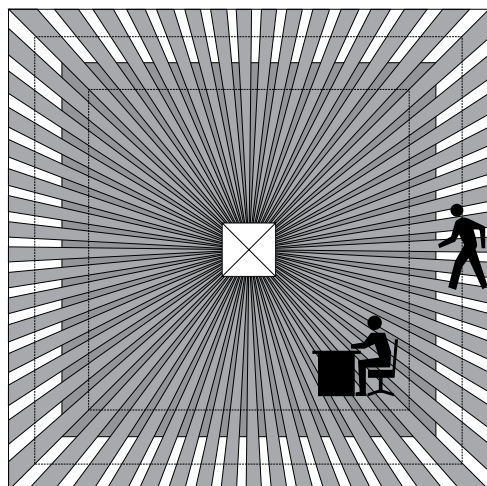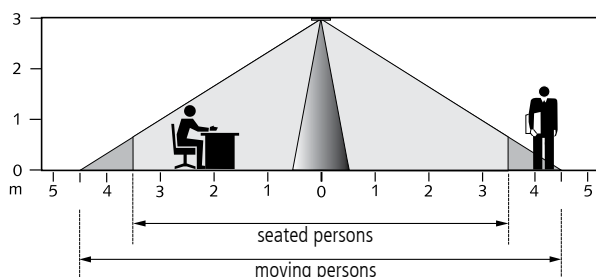
Technical data

Presence detector	PlanoCentro A-KNX
Detection angle horizontal / vertical	360° / 120°
Recommended installation height	2.5 - 3.5 m
Detection range 3.5 m installation height	64 m² (8 x 8 m) seated persons 100 m² (10 x 10 m) moving persons
Light measurement	Mixed light
Brightness range Light measurement deactivated	approx. 5 - 2000 Lux Measurement off
All settings can be set remotely	see KNX handbook
"Light" switch-off delay time	30 sec. - 60 min.
"Presence" switch-off delay time	10 sec. - 120 min.
"Presence" switch-on delay	10 sec. - 30 min. / inactive
Terminals	KNX
Power consumption	~ 16mA
Communication receiving data sending data	IR Radio 868 MHz
Ambient temperature	0° - +50°C
Storage temperature	-25° - +60°C
Protection rating	IP 20
Protection rating when fitted	IP 40
Ceiling installation (false ceilings)	
Installation type	PlanoFix E installation frame
Ceiling cut out	100 x 100 mm ± 1 mm
Ceiling strength	up to approx. 26 mm
Flush-mounted installation (concrete ceiling)	
Installation type	PlanoFix U, flush-mounted junction box
Flush-mounted junction box, Agro/Kaiser	115 x 115 x 100 mm, 9908.01/1298-07
PlanoFix U (installation plate)	Metal 118 x 118 mm

Placement

Detection range

The square detection area guarantees accurate and simple planning. A whole room can be covered with parallel connections. Note that seated and moving persons can be detected in differently-sized areas.

The recommended mounting height is 2.5 - 3.5 m.

The sensitivity of the detector reduces with higher mounting heights. The detection areas of several detectors should meet in the marginal zones.

M.height	seated persons		moving persons	
2.0 m	20 m²	4.5 m x 4.5 m	36 m²	6,0 m x 6,0 m ± 0,5 m
2.5 m	36 m²	6.0 m x 6.0 m	64 m²	8,0 m x 8,0 m ± 0,5 m
3.0 m	49 m²	7.0 m x 7.0 m	81 m²	9,0 m x 9,0 m ± 1,0 m
3.5 m	64 m²	8.0 m x 8.0 m	100 m²	10,0 m x 10,0 m ± 1,0 m

Seated persons

The presence detector is very sensitive and reacts to the slightest movements. This is particularly required for office areas where people are seated for a long period of time. The details relate to the detection area for movements at table height (approx. 0.80 m).

Moving persons

This area is for motion detection such as walking.

Accessories:

Management remote control SendoPro 868-A

The SendoPro 868-A management remote control is available for start-up, configuration and service. The parameters are easy to set and read-out remotely.

theSenda S user remote control

theSenda S user remote control is available for customer. This makes it possible to switch and dim one or two lighting groups of different detectors individually. Two programmable scenes are available to the user. Neighbouring light groups can be separated from each other. Optionally you can control blind operation or other suitable devices.

Item numbers	
PlanoCentro EWH-A-KNX, Installation set, white	205 9 102
PlanoCentro EBK-A-KNX, Installation set, black	205 9 103
PlanoCentro ESR-A-KNX, Installation set, silver	205 9 104
PlanoCentro UWH-A-KNX, flush-mounted installation set, white	205 9 202
PlanoCentro UBK-A-KNX, flush-mounted installation set, black	205 9 203
PlanoCentro USR-A-KNX, flush-mounted installation set, silver	205 9 204
PlanoCentro A-KNX (spare part)	205 9 000
Management remote control SendoPro 868-A	907 0 675
User remote control theSenda S	907 0 911
PlanoCover EWH-112x112, white	907 0 677
PlanoCover EBK-112x112, black	907 0 678
PlanoCover ESR-112x112, silver	907 0 679
PlanoCover UWH-123x123, white	907 0 680
PlanoCover UBK-123x123, black	907 0 681
PlanoCover USR-123x123, silver	907 0 682

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