Standalone smart PIR sensor zc-pir-st-1sw-r

zencontrol

Dimensions

Mounting (kits sold separately)	Recessed (cut-out min Ø83 mm)
	Wall mount kit (mounting centres 85 mm)
	Surface mount kit
	Rod mount kit
	Conduit mount kit (mounting centres 50-60 mm)
Dimensions	Ø95 / 55 mm

Ø95

28

52

3

Product range

Order code	Description
zc-pir-st-1sw-r	Standalone smart PIR sensor
zc-pir-st-1sw-r-blk	Standalone smart PIR black sensor

Specifications

Supply	220 - 240 V ~50 Hz
Supply current	< 0.020 A
Relay output (-r models)	6 A resistive ☼
Lens	Fresnel
Sensors	PIR, IR, lux
IR	38 kHz
Wiring	2.5 mm^2 cable
Operating temperature	0 - 35°C
Material	PC (body)
Ingress protection	IP54 (front-face only)
	IP65 (with surface or wall mount kit)

Accessory range

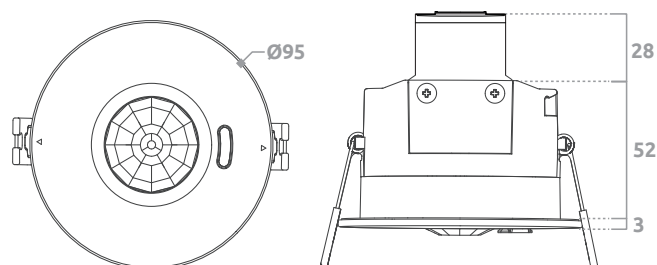| Order code	Description
zc-smart-wall-kit	Smart sensor wall mount kit
zc-smart-sm-kit	Smart sensor surface mount kit, for surface, rod, conduit mount
zc-rodmount-wht	Rod mount kit, white, for with Smart sensor surface mount kit
zc-ir-ctrl-com	Hand-held infrared control and commissioning unit

Wiring

0.5-2.5 mm^2

8-9 mm

L = Protective device if needed (MCB or Fuse)

N
N
L

N
N
L
L'out
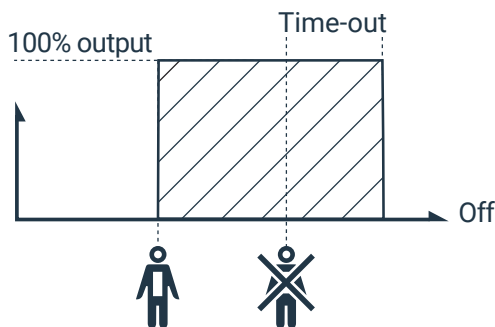
Link
Link
Lsw
Lo

Momentary switch

Load

Installation

Remove the product from the box and inspect it for any damage. If you believe the product to be damaged or otherwise unsound, *do not* install the product. Please return it to the place of purchase for replacement.

If the product is satisfactory, proceed with the installation:

1 Choose a location considering the conditions listed in the *detection pattern* section.

2 Drill mounting hole in desired position using 83 mm hole saw.

3 Push the spring clips in as per *fig 3*. Insert sensor into the desired position and the spring clips will automatically release, ensuring that the sensor is secure and flush up against the ceiling.

4 Remove covers, as per *fig 4*, and wire per diagrams overleaf.

Cut out min Ø83 mm

Ceiling thickness Max 30 mm

Spring clips

3

4

CE

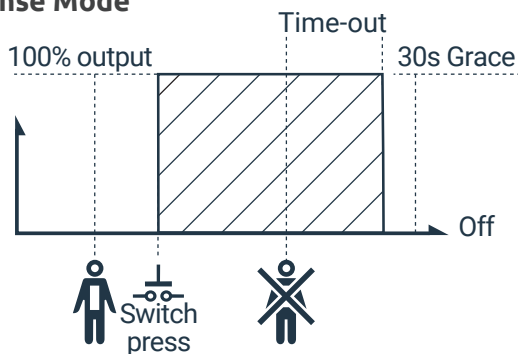## Presense Mode

100% output
Time-out
Off
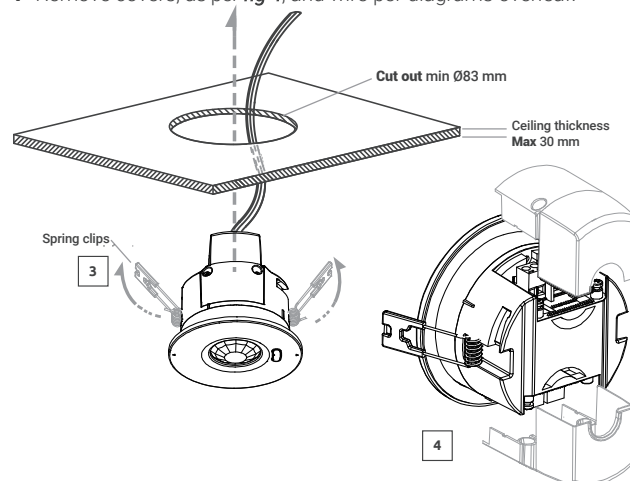
Presense Mode (With Switch)

100% output
Time-out
Off
Switch press

Absense Mode

100% output
Time-out
30s Grace
Off
Switch press
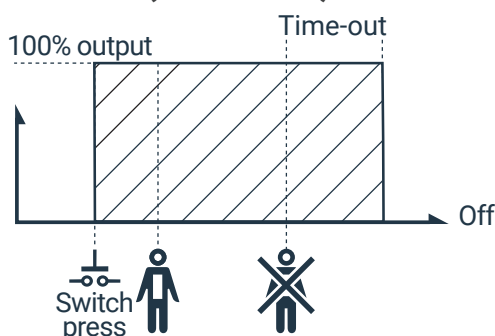
Detection pattern

Mounting height	2 - 4 m	Range ø	8 m (mounted at 3.0 m)

- The units detection range may alter with changes in ambient temperature.
- Position sensor so that movement occurs across the scan area. Detection range will be reduced when walking directly towards or away from the sensor.
- Do not direct sensor at reflective surfaces or variable heat sources.
- Do not aim sensor directly at the sun, this may cause damage to the PIR sensor.
- When in Absence Mode the product will have a 30 second grace period after the light turns off, where a user may re-trigger the sensor.
- Green LED will flash during detection.
- Red LED will flash on successfully receiving an IR command.

Height
Range
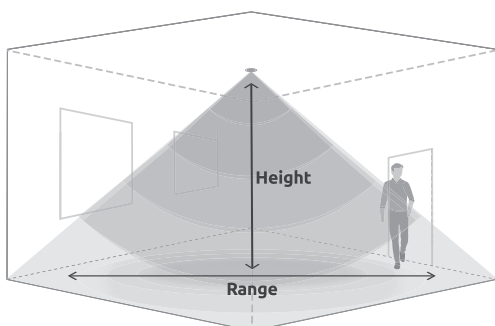
Programming & default standalone configuration

Sensor mode	Presence mode. The sensor will automatically turn lights on when movement is detected.
Sensor idle-time	14 minutes after the last presence was detected

Refer to IR commissioning, zc-ir-ctrl-com, datasheet for custom programming via IR. **Note:** zc-ir-ctrl-com is sold separately.

Remote Control description

Symbol	Function	Description
ON	**On**	Switches the luminaire on.
OFF	**Off**	Switches the luminaire off.
Lux		
Set lux level	**Set lux level**	When this mode is active, the user may use the up and down arrows to select 5 predetermined lux levels
Set dusk level	**Set dusk level**	Sets dusk level from current light level. The luminaire will turn on if light level is less than dusk level. while the sensor is on and the ambient lighting becomes too bright the sensor will turn itself off after 10 minutes (even if there is PIR activity)The sensitivity can be adjusted by using the up / down arrows. (While Yellow LED is flashing)
Disable	**Disable lux/dusk**	Disables lux/dusk mode.
Wireless		
Walk test	**Walk test**	Initiates a 3 Minutes walktest The walk test is indicated by a blue flashing LED and can be stopped by pressing off
Reset mode	**Reset mode**	Resets product to defaults
Sensor		
Absence mode	**Absence mode**	Absence mode activated. The switch must be turned on when someone enters a room, but the sensor detects when the room is vacated, switching off the lights automatically. The sensitivity can be adjusted with the step up and step down arrows (While white LED is flashing)
Presence mode	**Presence mode**	Presence mode activated. The sensor will automatically turn lights on when movement is detected.(Default) The sensitivity can be adjusted with the step up and step down arrows (While white LED is flashing)
Disable	**Disable PIR**	Disables the PIR sensor.
General settings		
Reset all	**Reset all**	A complete factory reset, clears all settings, including standalone mode settings
Symbol		
Main Timer 19 min	**Main Timer**	The main timer the period of time for the product to remain on.
Dwell Timer 5 min	**Dwell Timer**	When entering the dwell timer mode, the product will flash once, (Infinite Timer is not supported)