zencontrol

Standalone PIR sensors **datasheet**

smartscape
connected lighting systems

Features

- Light level measurement
- Programmable via IR remote
- Programmable sensor time-out
- Switch inputs for switch models
- Programmable switch features
- Multiple mounting options available
- Control based on ambient light and motion detection

IP65 **Weatherproof case**
IP65 rating with surface mount accessory case

High ceiling
Suitable for mounting on high ceilings up to 12m

Motion detection
Detection range 360° max. range 8 m

Dusk detection
Control based on ambient light and motion detection

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Product range

Order code	Description
zc-pir-st-r	Standalone PIR sensor 8 m, with inbuilt relay
zc-pir-st-1sw-r	Standalone PIR sensor 8 m, with inbuilt relay and one switch

Features
- PIR motion sensor
- Light level measurement
- Programmable via IR remote
- Switch inputs for switch models
- IP65 weatherproof rating with mounting accessory
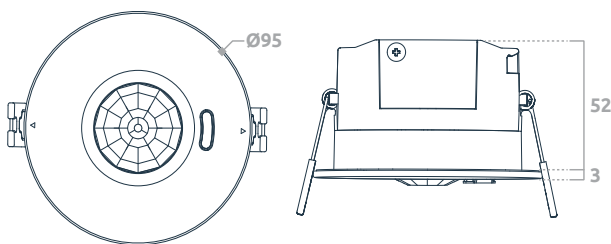
Programmable features (IR)
- Sensor time-out
- Lux level, dusk (if under lux level, activate sensor)
- Lux level, disable (if over lux level, disable sensor)

Programmable features (switch)
- Switch type (on / off, absence)
- Switch actions (enable / disable sensor, enable / disable lux)

Dimensions

Cut out	Min Ø83 mm	**Dimensions**	Ø95 / 55 mm

Specifications

Supply	220 - 240 V ~50 Hz
Supply current	< 0.1 A
Relay output (-r models)	120 A / 20 ms inrush current 10 A resistive ☼ 6 A inductive
Output voltage rating AC (-vf models)	10 A resistive ☼ 6 A inductive
Output load rating DC (-vf models)	0 - 25 V 3 A resistive ☼ 25 - 240 V 200 mA resistive ☼
Lens	Fresnel
Sensors	PIR, IR, lux
IR	38 kHz
Wiring	2.5 mm^2 cable (no earth, suits round and tps)
Operating temperature	-10 to 55°C
Material	PC (body)
Ingress protection	IP54 (front-face only)
	IP65 (with surface or wall mount)
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)
Compliance standards	IEC 61347-2-11 EN 55015 IEC 60669-2-1 IEC 62386-101 CISPR 15 IEC 62386-103

Detection pattern

Mounting height	2 - 12 m	**Range ø**	8 m (mounted at 2.7 m)

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Wiring

zc-pir-st-r

N
N
L
L'out

N
Load
L

Loop
Loop

0.5-2.5 mm²
8-9 mm

Protective device if needed

Load connected to relay

Momentary switch

zc-pir-st-1sw-r

N
N
L
L'out

N
Load
L

Loop
Loop
LSW
LO

Momentary switch

Presence mode

100%
Time-out
Off
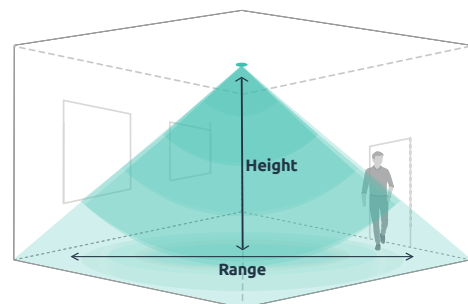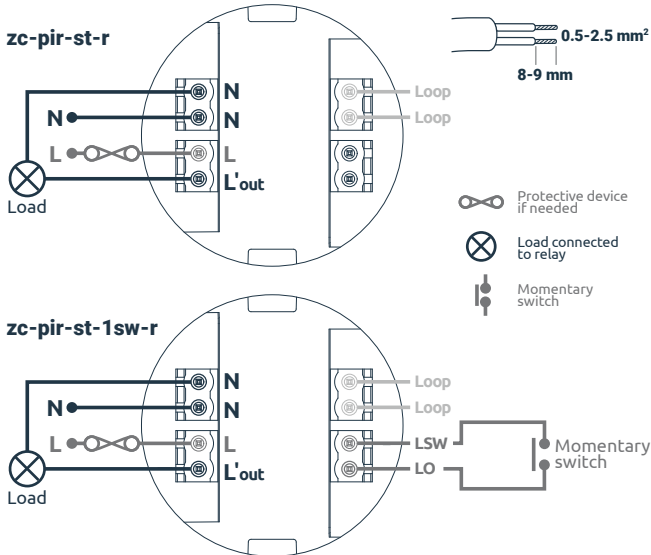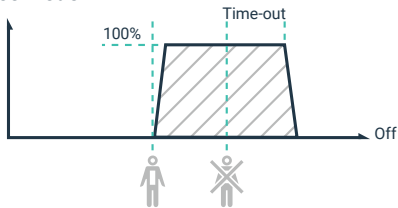
Presence mode (with switch)

Switch
Motion
Time-out
100%
Off

### Absence mode

Motion
Switch
Time-out
100%
30s*
Off
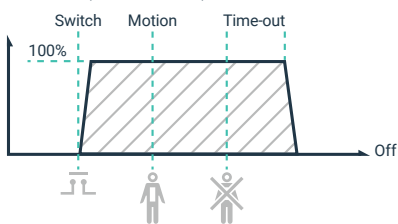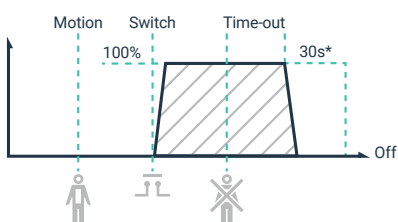
* If motion is detected within 30 seconds after the time-out the output will turn on. After 30 seconds has elapsed a switch press is required to turn the output on again.

Wiring overview

The sensor can be wired via the terminals found under the terminal covers, as seen below. The amount of terminals will vary depending on model.
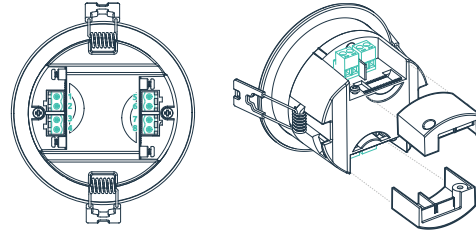
Accessory range*

Fig.	Order code	Description
7	**zc-smart-wall-kit**	Smart sensor wall mount kit
8	**zc-smart-sm-kit**	Smart sensor surface mount kit, suitable for surface, rod and conduit mounting
9	**zc-rodmount-wht**	Rod mount kit, white, to be used with Smart sensor surface mount kit
10	**n/a**	Conduit mount, not supplied by zencontrol, used with Smart sensor surface mount kit
11	**zc-ir-ctrl-com**	Hand-held infrared control and commissioning unit

7 **Wall mount**

8 **Surface mount**

9 **Rod mount**

10 **Conduit mount**

11 **IR controller**

*Sold seperately

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