zencontrol

Standalone smart PIR sensors **datasheet**

smartscape
connected lighting systems

V1.5

Last updated **12 / 04 / 21**

Information is subject to change without notice, E&OE

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Features

- Fully configurable
- Programmable via IR remote
- Programmable sensor time-out
- Switch inputs for switch models
- Programmable switch features
- Control based on ambient light and motion detection
- Corridor mode, motion sensing with dim to comfort level

IEC62386-101 PSU
Inbuilt IEC62386 power supply with 35 mA of DALI power

IEC62386-103
Inbuilt Application controller to independently control DALI control gear

Motion detection
Detection range 360°
max. range 8 m

Configurable via IR
Sensor time-outs, switch and light control features

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Product range

Order code	Description
zc-pir-st-da	Standalone smart PIR sensor 8 m
zc-pir-st-da-r	Standalone smart PIR sensor, 8 m, with inbuilt relay
zc-pir-st-da-vf	Standalone smart PIR sensor 8 m, with inbuilt volt-free relay
zc-pir-st-da-2sw-r	Standalone smart PIR sensor 8 m, with inbuilt relay and two switches
zc-pir-st-da-2sw-vf	Standalone smart PIR sensor 8 m, with inbuilt volt-free relay and two switches

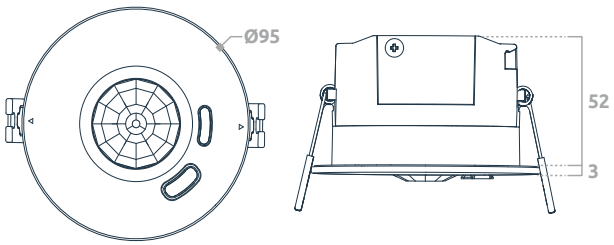
Features
- PIR motion sensor
- Light level measurement
- Full control of DALI lighting
- Programmable via IR remote
- Inbuilt IEC62386-101 power supply, 35 mA
- Inbuilt IEC62386-103 application controller
- Connect multiple sensors together (max 5)

Programmable features (IR)
- Sensor time-out
- Corridor mode
- Daylight harvesting
- Lux level, dusk (if under lux level, activate sensor)
- Lux level, disable (if over lux level, disable sensor)

Programmable features (switch)
- Switch type (dimmer, on / off, up / down, colour dimmer, colour warmer, colour cooler)
- Switch actions (enable / disable sensor, enable / disable lux)
- Switch override time

Dimensions

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



Notice

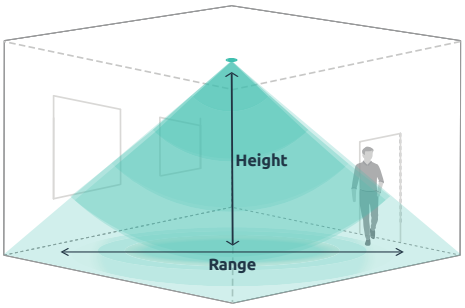
- The DALI line is not SELV. It must be treated like LV mains and treated with the same precautions and wiring regulations.

Specifications

Supply	220 - 240 V ~50 Hz	
Supply current	< 0.1 A	
DALI power supply	35 mA 16 V (inbuilt)	
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 mm² cable (no earth, suits round and tps)	
Operating temperature	-10 to 55°C	
Material	PC (body)	
Ingress protection	IP54 (with seal installed into roof)	
	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 IEC 60669-2-1 CISPR 15	EN 55015 IEC 62386-101 IEC 62386-103

Detection pattern

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



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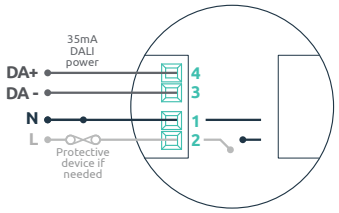
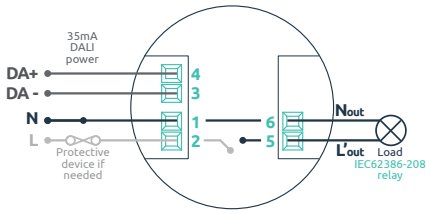
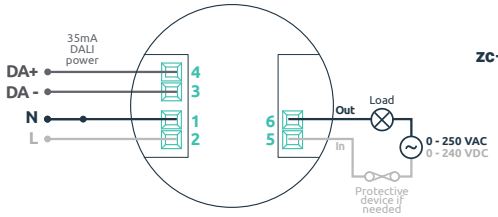
Wiring



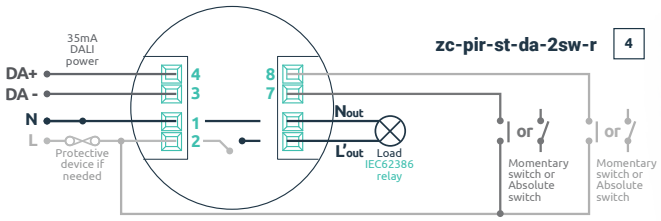
zc-pir-st-da 1



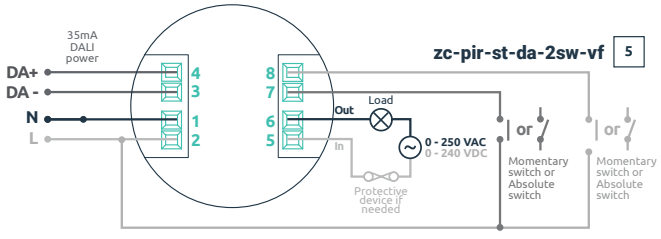
zc-pir-st-da-r 2



zc-pir-st-da-vf 3



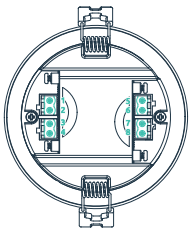
zc-pir-st-da-2sw-r 4

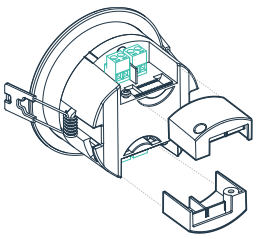


zc-pir-st-da-2sw-vf 5

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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