zencontrol
Internal microwave sensor **datasheet**

Specifications

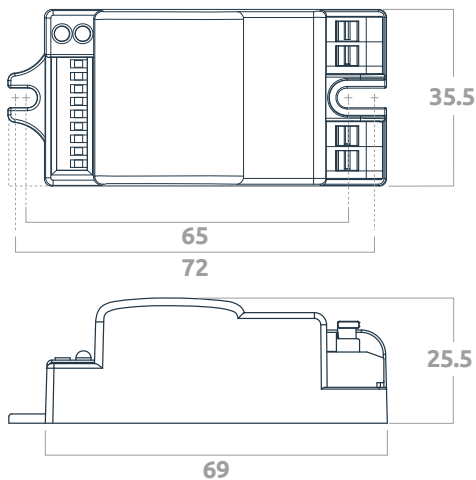|	
Sensors	Microwave, ambient light
HF system	5.8 GHz CW radar, ISM band, <0.5 mW
Supply voltage	230 V ~
Power consumption	<0.5 W (stand by)
Operating temperature	-20 to 60°C
Output load	800 W resistive ☀ 400 W inductive ⟺ 200 W capacitive, led 🖤
Min. load	5 W
Detection motion speed	0.5 - 3 m/s
Ingress protection	IP20
Material	PC

Product range

Order code	Description
zc-mw-basic	Microwave sensor 16 m, internal kit

Features

- Switching capacity max. 800W
- Suitable for wall or ceiling mount
- Supplied with 170 mm cable ready to wire
- Control based on ambient light and motion detection
- 5.8 GHz continuous wave radar, ISM band (industrial, scientific and medical)
- Motion can be detected through plastic, glass and thin non-metal materials
- Zero-crossing operation helps protect the sensor against high in-rush current

Detection pattern

Mounting type	Field of view	Range ø	Installation height
Wall	150°	16 x 6 m	1 - 1.8 m
Ceiling	360°	12 x 12 m	2.5 - 6 m

Wall   Ceiling

Dimensions

Mounting centres	65-72
Dimensions	W69 / H25.5 / D35.5 mm

Wiring diagram

⊗ **Load**

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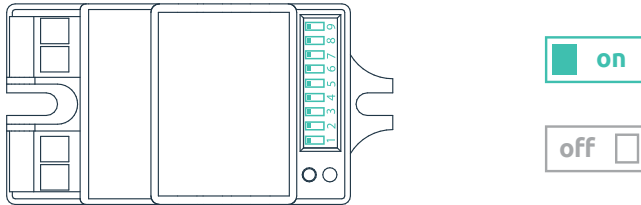
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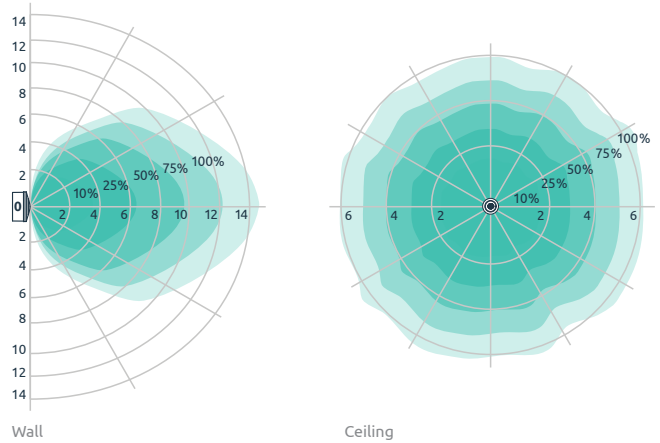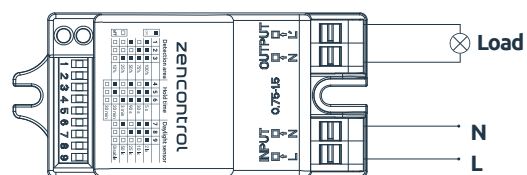
Configuration

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

Daylight The lamp works always, even during daylight
Twilight The lamp works only in twilight and darkness
Darkness The lamp works only in darkness

■ on
off □

1	2	3	Range	
■	■	■	100% (default)	**Detection area**
□	■	■	75%	Detection area can be
■	□	■	50%	reduced by selecting the
□	□	■	25%	combination on the DIP
□	□	□	10%	switches to fit precisely each application

4	5	6	Hold time	
■	■	■	5 sec (default)	
□	■	■	30 sec	**Hold time**
■	□	■	90 sec	Refers to the time period
□	□	■	3 min	the lamp remains at
■	■	□	20 min	100% illumination after
□	□	□	30 min	no motion detected

7	8	9	Lux operation	
■	■	■	2 lx darkness operation only	**Daylight sensor**
■	■	□	10 lx darkness operation only	The sensor can be set
□	■	□	25 lx twilight operation	to only allow the lamp to
■	□	□	50 lx twilight operation	illuminate below a
□	□	□	Daylight sensor disabled (default)	defined ambient brightness threshold