zencontrol

DALI microwave sensor **datasheet**

Features

- Compatible with DALI and DALI-2
- Suitable for DALI application controller
- Wall and ceiling mountable housing
- 5.8 GHz continous wave radar, ISM band
- Control based on ambient light and motion detection
- Adjustable motion sensitivity and light-level soft point

DALI
Fully DALI compliant
and compatible

Mountable
Wall and ceiling
mountable housing

Motion detection
Detection range 360°
max. range 12 m

Dusk detection
Control based on ambient
light and motion detection

Product range

Order code	Description
zc-mw-sw-sm	Mains rated microwave sensor and DALI switch module with surface mount enclosure

Features

- For use with DALI compliant application controller
- Compliant to DALI IEC 62386-303
- Light control based on ambient light and motion detection
- Surface mounted
- Multiple control devices per line
- Up to 64 devices per DALI line
- Control scenes / groups / actions / events with a zencontrol control system
- Motion can be detected through plastic, glass and thin non-metal materials
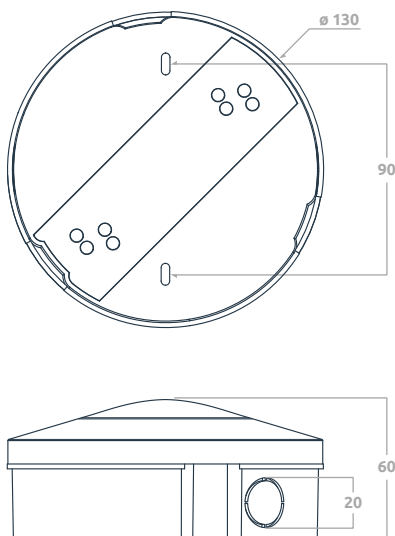
Specifications

Supply voltage	230 V ~ 50 Hz
Input power	0.5 W (standby)
HF system	5.8 GHz ± 75 MHz, ISM wave band < 0.5 mW
Control system	DALI
DALI line current	2.5 mA
Wiring	Terminal block
Operating temperature	0 to 45°C
Material	PC (body)
Ingress protection	IP20
Compliance standards	IEC 61347-2-11 CISPR 15 EN 55015 IEC 62386-301 Ed 2.0 IEC 62386-303

Wiring

DA1 White
DA2 Orange
L Brown
N Blue

Terminal size **6 mm □**

Dimensions

ø 130
90
60
20
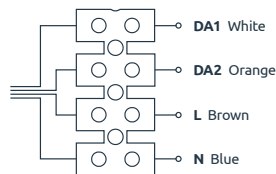
Mounting centres **90 mm**

Detection pattern

Detection zone	Range ø	Height
Max.	12 m	6 m
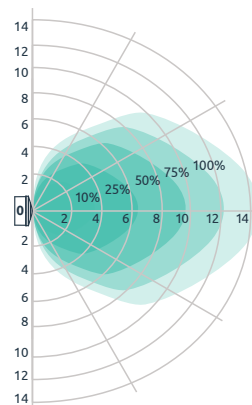
Suggested wall installation height **1.5 m**
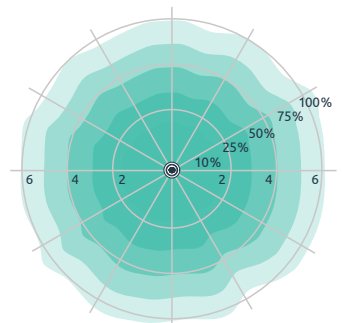
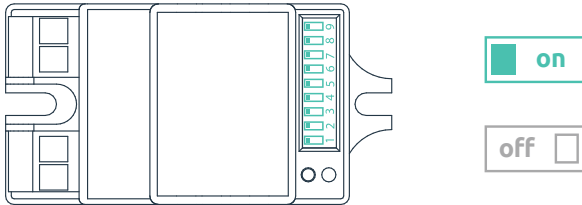Suggested ceiling installation height **3 m**

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 (walk test mode)		
☐	■	■	30 sec		**Hold time**
■	☐	■	90 sec		Refers to the time period
☐	☐	■	3 min (default)		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

Accessories range

For cordsets see datasheets at *zencontrol.com/downloads*

Notice

- The switch must not be connected to any mains. It is powered directly from the DALI line.
- The DALI line is not SELV. It must be treated like LV mains and treated with the same precautions and wiring regulations.