zencontrol

Wireless microwave sensors **datasheet**

Features

- Programmable via IR remote
- Programmable sensor time-out
- Programmable switch features
- Multiple mounting options available
- Wireless support for IEC62386-104 over Thread
- Inbuilt application controller for standalone control
- Control based on ambient light and motion detection

Includes fully independent IEC62386 devices

- IEC62386 -208 Relay
- IEC62386 -303 Movement sensor
- IEC62386 -304 Light level sensor
- IEC62386 -302 Absolute switch (IR)

Wireless
Wireless (IEC62386-104) connectivity over Thread

IEC62386 compliant
Fully IEC62386 compliant and compatible

Product range

Order code	Description
zc-mw-iot-da	Wireless microwave sensor 8 m
zc-mw-iot-da-r	Wireless microwave sensor 8 m, with inbuilt relay
zc-mw-iot-da-vf	Wireless microwave sensor 8 m, with inbuilt volt-free relay

Features
- Wireless connectivity
- Microwave motion sensor
- Light level measurement
- Programmable via IR remote
- Wireless support for IEC62386-104 over Thread
- IP65 weatherproof rating with mounting accessory
- Fully compatible with other DALI-2 application controllers
- Broadcast control of DALI devices with inbuilt application controller
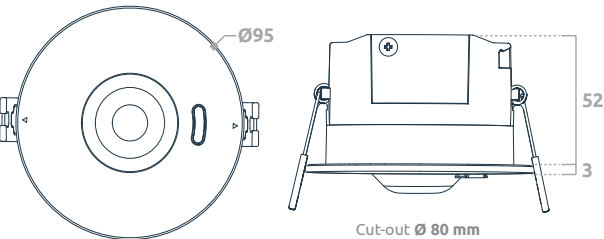
Fully independent IEC62386 devices
- IEC62386 -208 Relay
- IEC62386 -303 Motion sensor
- IEC62386 -304 Light level sensor
- IEC62386 -302 Switch (IR)

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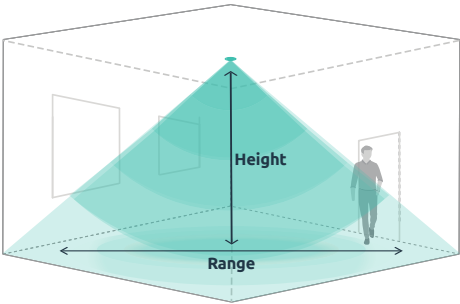- Lux level, disable (if over lux level, disable sensor)

Dimensions (mm)

Ø95

52

3

Cut-out Ø 80 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

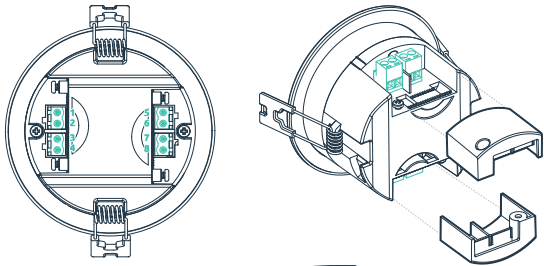|	
Supply	220 - 240 V AC
Supply current	< 0.1 A
DALI bus current	<2 mA
Relay output (-r models)	165 A / 20 ms inrush current 492 A / 1.5 ms LED inrush current 10 A capacitive ⌂ 10 A inductive ⧄ 10 A resistive ☼
Output voltage rating AC (-vf models)	10 A resistive ☼ 6 A inductive ⧄
Output load rating DC (-vf models)	0 - 25 V 3 A resistive ☼ 25 - 240 V 200 mA resistive ☼
Sensors	Microwave, IR, lux
Microwave	Microwave 5.8 GHz, 0.2 mW
Wireless	IEC62386-104 over Thread
IR	38 kHz
Wiring	2.5 mm² cable (no earth, suits round and tps)
Operating temperature	0 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 Ø 80 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 62386-208 IEC 60669-2-1 IEC 62386-301 CISPR 15 IEC 62386-302 EN 55015 IEC 62386-303 IEC 62386-104 IEC 62386-304

Detection pattern

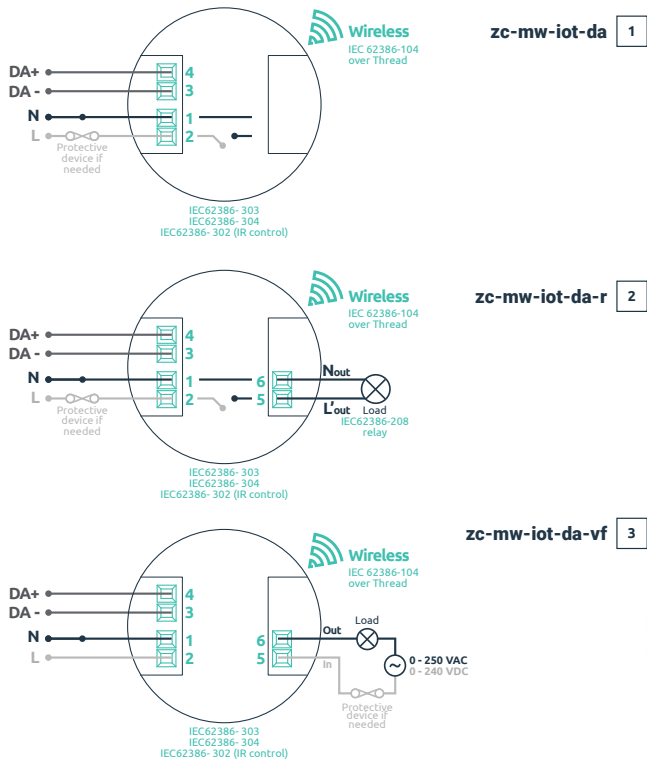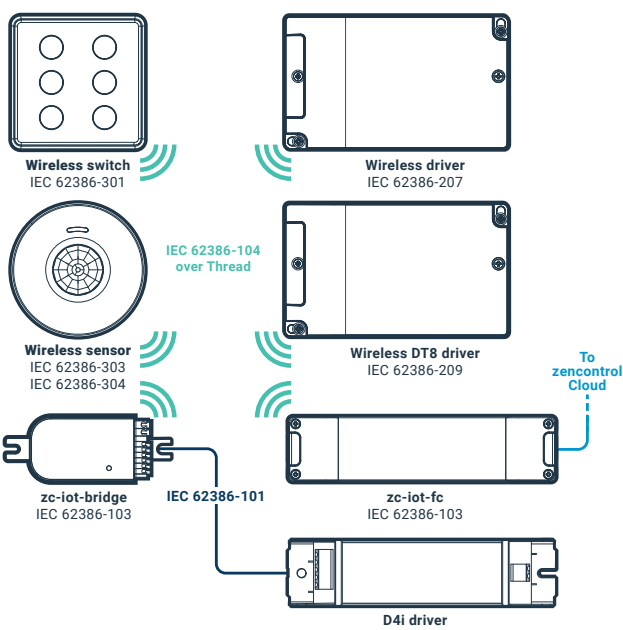| **Mounting height**	2 - 12 m	**Range ø**	8 m (mounted at 2.7 m)

Height

Range

Wiring overview

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

Wiring

Wireless
IEC 62386-104 over Thread

zc-mw-iot-da `1`

DA+
DA -
N
L — Protective device if needed

4
3
1
2

IEC62386- 303
IEC62386- 304
IEC62386- 302 (IR control)

Wireless
IEC 62386-104 over Thread

zc-mw-iot-da-r `2`

DA+
DA -
N
L — Protective device if needed

4
3
1
2

N_out
L'_out
Load
IEC62386-208 relay

6
5

IEC62386- 303
IEC62386- 304
IEC62386- 302 (IR control)

Wireless
IEC 62386-104 over Thread

zc-mw-iot-da-vf `3`

DA+
DA -
N
L

4
3
1
2

Out
Load

6
5

In
0 - 250 VAC
0 - 240 VDC

Protective device if needed

IEC62386- 303
IEC62386- 304
IEC62386- 302 (IR control)

Wireless system overview

Wireless switch
IEC 62386-301

Wireless driver
IEC 62386-207

IEC 62386-104 over Thread

Wireless sensor
IEC 62386-303
IEC 62386-304

Wireless DT8 driver
IEC 62386-209

zc-iot-bridge
IEC 62386-103

IEC 62386-101

zc-iot-fc
IEC 62386-103

To zencontrol Cloud

D4i driver

Accessory range

Fig.	Order code	Description
6	**zc-smart-wall-kit**	Smart sensor wall mount kit
7	**zc-smart-sm-kit**	Smart sensor surface mount kit, suitable for surface, rod and conduit mounting
8	**zc-rodmount-wht**	Rod mount kit, white, to be used with Smart sensor surface mount kit
9	**n/a**	Conduit mount, not supplied by zencontrol, used with Smart sensor surface mount kit

`6` **Wall mount**

`7` **Surface mount**

`8` **Rod mount**

`9` **Conduit mount**