



# **Features**

- Programmable via IR remote
- Wireless support for IEC62386-104 over Thread
- Inbuilt sensor for eCO<sub>2</sub>, eVOC, temperature, sound, humidity
- Programmable sensor time-out and switch features
- Control based on ambient light and motion detection
  Inbuilt application controller for standalone control
- Multiple mounting options available

### Includes fully independent IEC62386 devices

- IEC62386 -208 Relay
- IEC62386 -303 Movement sensor
- IEC62386 -304 Light level sensor
- IEC62386 -302 Absolute switch (IR)
- IEC62386 -3XX Generic input sensor (x4)



#### IEC62386-104 over Thread

Works with products supporting IEC 62386-104 over Thread



#### **WELL Building Standard**

Suitable to meet the international WELL Building Standard

# Wireless microwave and air quality sensors datasheet



### Product range

Description
The second secon
Wireless microwave multi-sensor 8 m
Wireless microwave multi-sensor 8 m, with inbuilt relay
Wireless microwave multi-sensor 8 m, with inbuilt volt-free relay

#### **Features**

- eCO<sub>2</sub> sensor eVOC sensor
- Humidity sensor
- Sound level sensor
- Temperature sensor
- Light level measurement
- Microwave motion sensor
- Programmable via IR remote
- Wireless support for IEC62386-104 over Thread
- Fully compatible with other DALI application controllers
- Broadcast control of DALI devices with inbuilt application controller

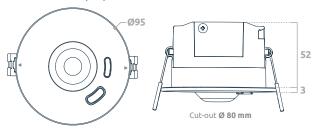
#### Fully independent IEC62386 devices

- IEC62386 -208 Relay
- IEC62386 -303 Motion sensor
- IEC62386 -304 Light level sensor
- IEC62386 -302 Switch (IR)
- IEC62386 -3XX Generic input sensor (x4)

#### 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)



### **Notice**

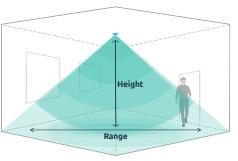
The DALI line is not SELV. It must be treated like LV mains and treated with the same precautions and wiring regulations.

### **Specifications**

Supply current  ODALI bus current  Relay output  (remodel)  10 A capacitive ⊕ 10 A resistive ♣ 6 A inductive ♣ 10 A resistive ♣ 6 A inductive ♣ 10 A resistive ♣ 6 A inductive ♣ 10 A resistive ★ 10	Specificacions				
According to the process of the pro	Supply	220 - 240 V AC			
Relay output  (r model)  165 A / 20 ms inrush current 492 A / 1.5 ms LED inrush current 10 A capacitive ⊕ 10 A resistive ♣ 10 A resistive ♣ 6 A inductive ♣ 10 A resistive ♣ 6 A inductive ♣ 10 A resistive ♣ 6 A inductive ♣ 10 Output load rating DC (vf model)  25 - 240 V 200 mA resistive ♣ Sensors  Microwave, IR, lux  Microwave  Microwave 5.8 GHz, 0.2 mms  Wireless  IEC62386-104 over Thread  38 kHz  Temperature  -20°C to 85°C (±1°C) -10°C to 40°C (±0.5°C)  Humidity  0 to 10,000 Lux (±5 %)  TVOC  0 to 60,000 ppb  CO₂eq  0 to 60,000 ppm  Sound level  35 to 100 dBA Leq (±2 dBA Leq)  Wiring  2.5 mm² cable (no earth, suits round and tps)  Operating temperature  Material  PC (body)  Ingress protection  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 62386-104 IEC 62386-303	Supply current	< 0.1 A			
492 A / 1.5 ms LED inrush current 10 A capacitive ⊕ 10 A inductive ⊕ 10 A resistive ⊕ 6 A inductive ⊕ 6 A i	DALI bus current	<2 mA			
(vf model) 6 A inductive ♣  Output load rating DC (vf model) 25 - 240 V 200 mA resistive ☆ 25 - 240 V 200 mA resistive ☆ Sensors Microwave, IR, Iux Microwave Microwave 5.8 GHz, 0.2 mms  Wireless IEC62386-104 over Thread  IR 38 kHz  Temperature -20°C to 85°C (±1°C) -10°C to 40°C (±0.5°C)  Humidity 0 to 10,000 Lux (±5 %)  TVOC 0 to 60,000 ppb  CO₂eq 0 to 60,000 ppm  Sound level 35 to 100 dBA Leq (±2 dBA Leq)  Wiring 2.5 mm² cable (no earth, suits round and tps)  Operating temperature 0 to 55°C  Material PC (body)  Ingress protection  Mounting (kits sold separately)  Recessed (cut-out Ø 80 mm)  Wall mount kit (mounting centres 85 mm)  Surface mount kit Rod mount kit Rod mount kit (mounting centres 50 - 60 mm)  Compliance standards IEC 61347-2-11 IEC 62386-104 IEC 62386-303	Relay output (-r model)	492 A / 1.5 ms LED inrush current 10 A capacitive ର 10 A inductive 🖟			
(vf model) 25 - 240 V 200 mA resistive ☆  Microwave, IR, lux  Microwave Microwave, IR, lux  Microwave Microwave 5.8 GHz, 0.2 mms  Wireless IEC62386-104 over Thread  IR 38 kHz  Temperature -20°C to 85°C (±1°C) -10°C to 40°C (±0.5°C)  Humidity 0 to 10,000 Lux (±5 %)  TVOC 0 to 60,000 ppb  CO₂eq 0 to 60,000 ppm  Sound level 35 to 100 dBA Leq (±2 dBA Leq)  Wiring 2.5 mm² cable (no earth, suits round and tps)  Operating temperature 0 to 55°C  Material PC (body)  Ingress protection IP20  Mounting (kits sold separately)  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 62386-104 IEC 62386-303	Output voltage rating AC (-vf model)				
Microwave         Microwave 5.8 GHz, 0.2 mms           Wireless         IEC62386-104 over Thread           IR         38 kHz           Temperature         -20°C to 85°C (±1°C)           -10°C to 40°C (±0.5°C)           Humidity         0 to 100% (RH±3%)           Lux         0 to 10,000 Lux (±5 %)           TVOC         0 to 60,000 ppb           CO₂eq         0 to 60,000 ppm           Sound level         35 to 100 dBA Leq (±2 dBA Leq)           Wiring         2.5 mm² cable (no earth, suits round and tps)           Operating temperature         0 to 55°C           Material         PC (body)           Ingress protection         IP20           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 mn           Compliance standards         IEC 61347-2-11 IEC 62386-104 IEC 62386-303	Output load rating DC (-vf model)	·			
IEC62386-104 over Thread   IEC62386-104 over Thread   IR	Sensors	Microwave, IR, lux			
Temperature	Microwave	Microwave 5.8 GHz, 0.2 mms			
Temperature	Wireless	IEC62386-104 over Thread			
-10°C to 40°C (±0.5°C)  Humidity	IR	38 kHz			
Humidity	Temperature	-20°C to 85°C (±1°C)			
TVOC		-10°C to 40°C (±0.5°C)			
TVOC         0 to 60,000 ppb           CO₂eq         0 to 60,000 ppm           Sound level         35 to 100 dBA Leq (±2 dBA Leq)           Wiring         2.5 mm² cable (no earth, suits round and tps)           Operating temperature         0 to 55°C           Material         PC (body)           Ingress protection         IP20           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 62386-104 IEC 62386-303	Humidity	0 to 100% (RH±3%)			
CO2eq         0 to 60,000 ppm           Sound level         35 to 100 dBA Leq (±2 dBA Leq)           Wiring         2.5 mm² cable (no earth, suits round and tps)           Operating temperature         0 to 55°C           Material         PC (body)           Ingress protection         IP20           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 mn           Compliance standards         IEC 61347-2-11 IEC 62386-104 IEC 62386-303	Lux	0 to 10,000 Lux (±5 %)			
Sound level 35 to 100 dBA Leq (±2 dBA Leq)  Wiring 2.5 mm² cable (no earth, suits round and tps)  Operating temperature 0 to 55°C  Material PC (body)  Ingress protection IP20  Mounting (kits sold separately)  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 62386-104 IEC 62386-303	TVOC	0 to 60,000 ppb			
Wiring 2.5 mm² cable (no earth, suits round and tps)  Operating temperature 0 to 55°C  Material PC (body)  Ingress protection IP20  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 mn)  Compliance standards IEC 61347-2-11 IEC 62386-104 IEC 62386-303	CO <sub>2</sub> eq	0 to 60,000 ppm			
Operating temperature 0 to 55°C  Material PC (body)  Ingress protection IP20  Mounting (kits sold separately)  Wall mount kit (mounting centres 85 mm)  Surface mount kit  Rod mount kit  Conduit mount kit (mounting centres 50 - 60 mn  Compliance standards IEC 61347-2-11 IEC 62386-104 IEC 62386-303	Sound level	35 to 100 dBA Leq (±2 dBA Leq)			
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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 mn  Compliance standards  Recessed (cut-out Ø 80 mm)  Wall mount kit (mounting centres 85 mm)  Surface mount kit  Rod mount kit (mounting centres 50 - 60 mn	Material	PC (body)			
Wall mount kit (mounting centres 85 mm)  Surface mount kit  Rod mount kit  Conduit mount kit (mounting centres 50 - 60 mn)  Compliance standards  IEC 61347-2-11 IEC 62386-104 IEC 62386-303	Ingress protection	IP20			
Wall mount kit (mounting centres 85 mm)  Surface mount kit  Rod mount kit  Conduit mount kit (mounting centres 50 - 60 mn)  Compliance standards  IEC 61347-2-11 IEC 62386-104 IEC 62386-303	Mounting (kits sold separately)	Recessed (cut-out Ø 80 mm)			
Rod mount kit  Conduit mount kit (mounting centres 50 - 60 mn  Compliance standards  IEC 61347-2-11 IEC 62386-104 IEC 62386-303		Wall mount kit (mounting centres 85 mm)			
Conduit mount kit (mounting centres 50 - 60 mn  Compliance standards IEC 61347-2-11 IEC 62386-104 IEC 62386-303		Surface mount kit			
Compliance standards IEC 61347-2-11 IEC 62386-104 IEC 62386-30:		Rod mount kit			
		Conduit mount kit (mounting centres 50 - 60 mm)			
	Compliance standards	IEC 60669-2-1         IEC 62386-208         IEC 62386-303           CISPR 15         IEC 62386-301         IEC 62386-304			

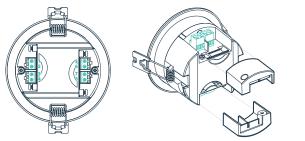
# **Detection pattern**

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

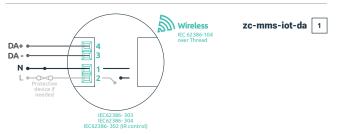


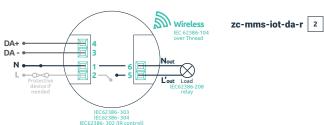
# Wiring overview

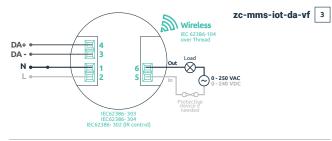
The smart IoT sensor can be wired via the terminals found under the terminal covers, as seen below. The amount of terminals will vary depending on model.



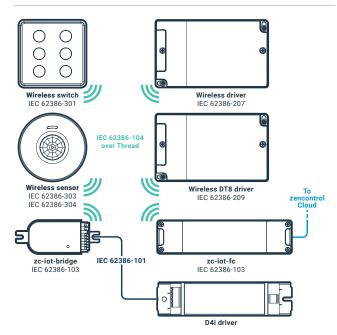
# Wiring







## Wireless system overview



### Accessory range

Fig.	g. <b>Order code</b> 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	

