OPERATING INSTRUCTION

LED CEILING LAMP

BA
LIGHTING

LED Ella

IP44 □ CE √RoHS 2011/65/EU

APPLICATION

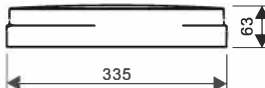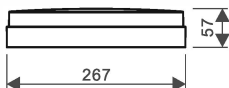This is indoor LED ceiling lamp.

- Houses
- Offices
- Retail
- Schools
- Hotels
- Hospitals

MAIN TECHNICAL DATA

Input: AC 220-240V 50/60Hz
Light source: LED SMD2835
Working temperature: -25°C---+50°C   -25°C---+40°C(with sensor)
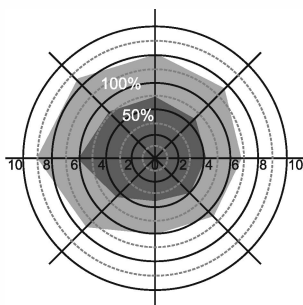
57
267

63
335

CAUTION

1. The product must be installed by professional technicians and power supply must be cut off before installation.
2. The installation wiring must be 2x 1.0-2.5mm^2 and wired in accordance with the latest IEE electrical regulations or the national requirements.(Recommend type of cable is H03VV-F)
3. The light source of this luminaire is not replaceable,when the light source reaches its end of life the whole luminaire shall be replaced.
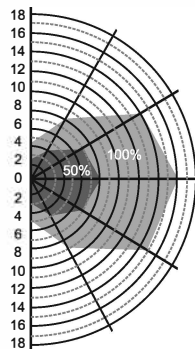
DESCRIPTION OF MICROWAVE SENSOR

- Detection zone Max.(D x H): 12m x 6m
- Detection sensitivity: 50% or 100%, adjustable
- Hold time: 5sec-10min, adjustable
- Daylight On: 5-50Lux, adjustable or disable
- Daylight Off: 25-150Lux, adjustable or disable
- Stand-by Period : 0sec-+∞,adjustable
  (Refer to "Low light")

- Stand-by Dim Level : 10% or 25%,adjustable
- Ceiling Mounting height: Max. 6m
- Motion detection: 0.3~3m/s
- Detection angle: 150°(wall installation),
                        360°(ceiling installation)

Ceiling mounting pattern (Unit: m)
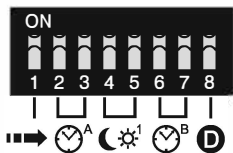Suggested installation height: 3m

100%
50%
10 8 6 4 2 0 2 4 6 8 10

Wall mounting pattern (Unit: m)
Suggested installation height: 2m

18
16
14
12
10
8
6
4
2
0
2
4
6
8
10
12
14
16
18

100%
50%

(Walking speed: 0.3m/s)

(Walking speed: 0.3m/s)

PARAMETER SETTING OF MICROWAVE SENSOR

▮▮➡ Detection Area

This determines the effective range of the motion detector and is set by DIP switches at the sensor itself, refer to figure. Note that reducing the sensitivity will also narrow the detection range.

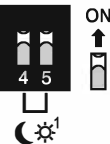|	1	
I	ON	100%
II	—	50%

◔A Hold Time

This determines the time the fitting remains at 100% level on motion detection and is set with DIP switches at the sensor itself, refer to figure. The walk test setting is useful when installing the fitting to establish correct operation and range.

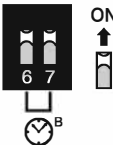|	2	3	
I	ON	ON	5s
II	ON	—	1min
III	—	ON	5min
IV	—	—	10min

☾☀1 Daylight

This allows the sensor to switch the unit on or off when ambient light is either full day light, low daylight,or after dark. It also allows the sensor to be disabled.

	4	5	ON	OFF
I	ON	ON	5Lux	25Lux
II	ON	—	25Lux	75Lux
III	—	ON	50Lux	150Lux
IV	—	—	Disable	Disable

◔B Stand-by Period

This refers to "Low light period",when it is set to +∞,the luminaire gives photocell prioritized function, meaning the luminaire is off when ambient brightness accesses the set threshold,and automatically on to a low light level when ambient brightness is lower than the set threshold, and turns to high light level when it detects a movement. It is set with DIP switches at the sensor itself, refer to figure.

	6	7	
I	ON	ON	0s
II	ON	—	10min
III	—	ON	30min
IV	—	—	+∞

Ⓓ Stand-by Dim Level

This refers to the brightness of "Low light period",It is set with DIP switches at the sensor itself, refer to figure.
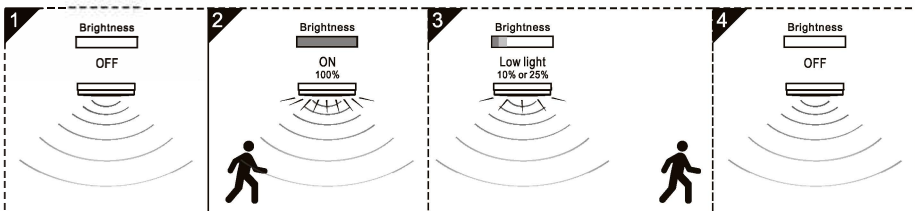
	8	
I	ON	10%
II	—	25%

When it is set to +∞ on "Stand-by period", the default setting is 10% and can't be changed.
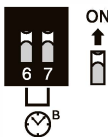
DESCRIPTION OF SENSOR FUNCTIONS

A Normal light-control function
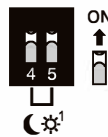Sensor with On/Low light(10% or 25%)/Off, three-step dimmable.

1 Brightness	2 Brightness	3 Brightness	4 Brightness
OFF	ON 100%	Low light 10% or 25%	OFF

⏰^B Stand-by Period (Refer to "Low light")

	6	7	
I	ON	ON	0s
II	ON	—	10min ✓
III	—	ON	30min ✓
IV	—	—	+∞

☾☀^1 Daylight

	4	5	ON	OFF
I	ON	ON	5Lux	25Lux ✓
II	ON	—	25Lux	75Lux ✓
III	—	ON	50Lux	150Lux ✓
IV	—	—	Disable	Disable

B Normal light-control function
Sensor with On/Off, two-step dimmable.

1 Brightness	2 Brightness	3 Brightness
OFF	ON 100%	OFF

⏰^B Stand-by Period (Refer to "Low light")

	6	7	
I	ON	ON	0s ✓
II	ON	—	10min
III	—	ON	30min
IV	—	—	+∞

☾☀^1 Daylight

	4	5	ON	OFF
I	ON	ON	5Lux	25Lux ✓
II	ON	—	25Lux	75Lux ✓
III	—	ON	50Lux	150Lux ✓
IV	—	—	Disable	Disable

C — Normal light-control function
Sensor with On/Low light(only 10%)

1 Brightness — Low light 10% or 25%

2 Brightness — ON 100%

3 Brightness — Low light 10% or 25%

Stand-by Period (Refer to "Low light")

ON ↑ | 6 7

	6	7		
I	ON	ON	0s	
II	ON	—	10min	
III	—	ON	30min	
IV	—	—	+∞	✓

Daylight

ON ↑ | 4 5

	4	5	ON	OFF	
I	ON	ON	5Lux	25Lux	
II	ON	—	25Lux	75Lux	
III	—	ON	50Lux	150Lux	
IV	—	—	Disable	Disable	✓

D — Photocell prioritized function
Sensor with On/Low light(only 10%)

1 Brightness — OFF — Daytime

2 Brightness — Low light 10% or 25% — Dusk

3 Brightness — ON 100% — Dusk---Night

4 Brightness — Low light 10% or 25% — Dusk---Night

5 Brightness — OFF — Dawn

Stand-by Period (Refer to "Low light")

ON ↑ | 6 7

	6	7		
I	ON	ON	0s	
II	ON	—	10min	
III	—	ON	30min	
IV	—	—	+∞	✓

Daylight

ON ↑ | 4 5

	4	5	ON	OFF	
I	ON	ON	5Lux	25Lux	✓
II	ON	—	25Lux	75Lux	✓
III	—	ON	50Lux	150Lux	✓
IV	—	—	Disable	Disable	

TECHNICAL INFORMATION

Code	Input Voltage	LED Type	Input Power	Lumen	Sensor	Dimensions (ΦxH)
BA2204-SMC-9W-CCT	220-240V∼ 50/60Hz	SMD2835	9 W	900/450 Lm	——	Ø267x57 mm
BA2200-SMC-15W-CCT	220-240V∼ 50/60Hz	SMD2835	15 W	1500/1000/700 Lm	——	Ø335x63 mm
BA2201-SMC-15W-CCT-MS	220-240V∼ 50/60Hz	SMD2835	16.5 W	1500/1000/700 Lm	Yes	Ø335x63 mm
BA2205-SMC-23W-CCT	220-240V∼ 50/60Hz	SMD2835	23 W	2300/1500/1000 Lm	Yes	Ø335x63 mm
BA2208	220-240V- 50/60Hz	SMD2835	23 W	2300/1500/1000 Lm	Yes	Ø335x63 mm

MASTER/SLAVE FUNCTION

Function A

sensor   sensor   sensor   sensor

Function B

sensor   sensor   sensor   sensor

With Sensor   Without Sensor   Without Sensor   Without Sensor

MAINS POWER SUPPLY

Function A   Remove the short cable

With Sensor   Without Sensor   Without Sensor   With Sensor

MAINS POWER SUPPLY

Function B   Remove the short cable
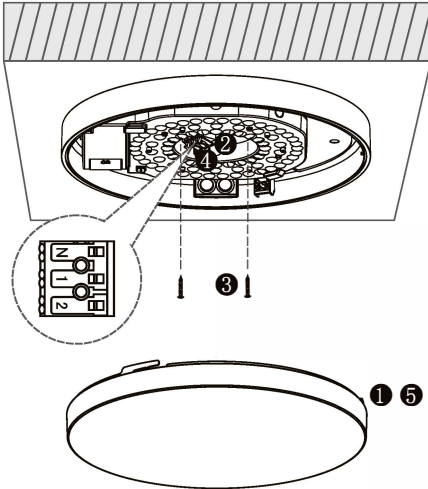
L
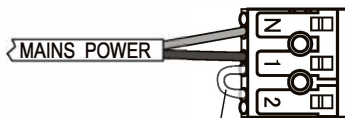N
Output of sensor

⚠ The number of slaves is limited.**(Max.30pcs)**

MOUNTING

1. Disassemble the diffuser .
2. Pull in the power cord through the gasket.
3. Fix the fixture on the surface with screws .
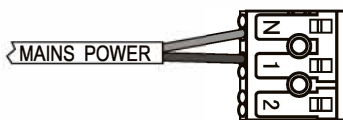4. Connect the power cord on the terminal correctly.
5. Assemble the diffuser.

Cable connection

MAINS POWER

Without Sensor
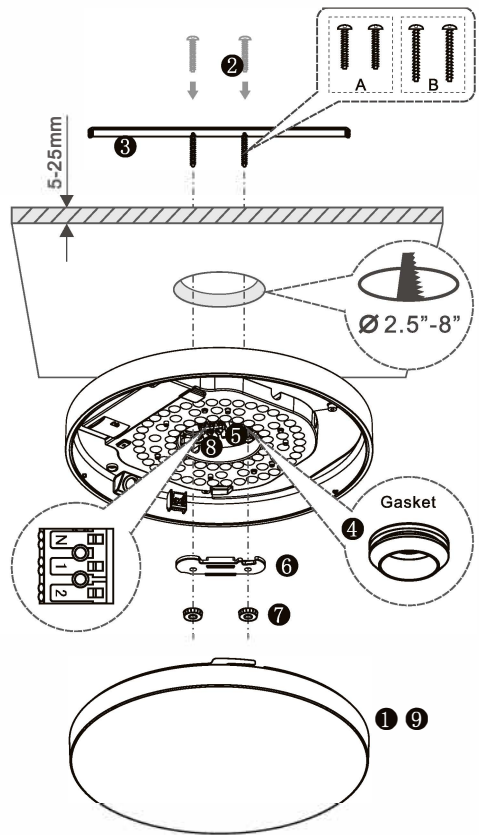
⚠ Remove it in master-slave use.

MAINS POWER

With Sensor (switched live not required)

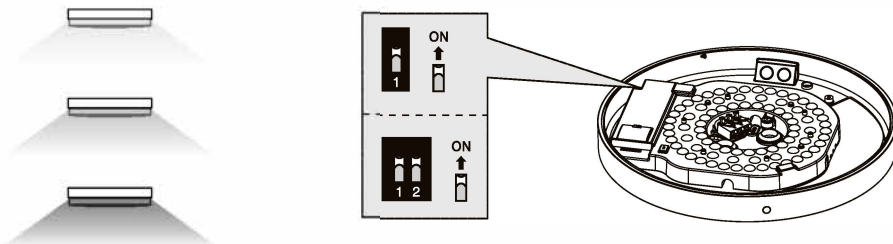**FLUSH**　　　EXTRA ACCESSORY

1. Disassemble the diffuser .
2. Assemble the screws A(suitable for 5-15mm thick ceiling) or B(suitable for 15-25mm thick ceiling) onto the bracket.
3. Put the bracket into the ceiling,make sure the screws go through the hole.
4. Remove two gaskets on the base.
5. Pull in the power cord through the hole.
6. Fix the plastic plate on the screws of bracket .
7. Screw the nuts.
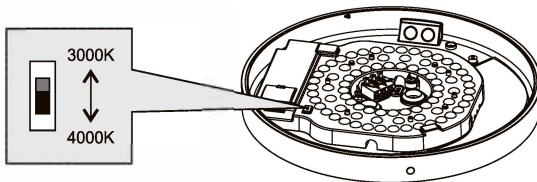8. Connect the power cord on the terminal correctly.
9. Assemble the diffuser.

5-25mm

A　　B

Ø 2.5"-8"

Gasket

SELECTABLE BRIGHTNESS

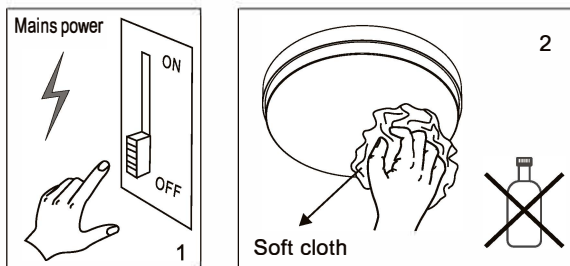Different brightness settings by DIP switches on the driver.

SELECTABLE COLOUR TEMPERATURE

Different colour temperature settings
by DIP switches on the LED plates.

3000K
4000K

MAINTENANCE

1. Cut off the mains power first.
2. Don't use chemical reagent to clean lamp.

Mains power
ON
OFF
1

2

Soft cloth

Environmental protection: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.