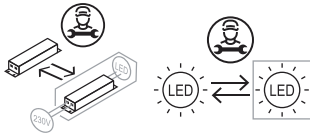


Installation Instruction



Product Code: 83003000200
83003000300

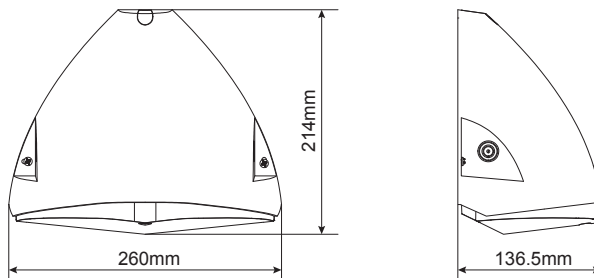
Product Description: Calex Foris SHM12 MD4R
Calex Foris SHM12 MD4R EM



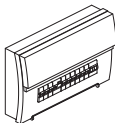
Important Information

- ◆ It is recommended that luminaires are installed / maintained by a fully qualified electrician and wired in accordance to the latest IEC standards or national equivalent.
- ◆ Mains power must be switched off during any installation or maintenance.
- ◆ This product is guaranteed for a period of 5 years from date of purchase. The guarantee is invalid in the case of improper use, improper installation or tampering. Should the product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. The manufacturer is not responsible for any costs associated with the replacement of this product.
- ◆ This product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general household waste but must be separated for its correct treatment and recovery. Where possible recycle your packaging.
- ◆ This product contains a light source of energy efficiency class D.

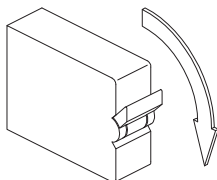
Dimension



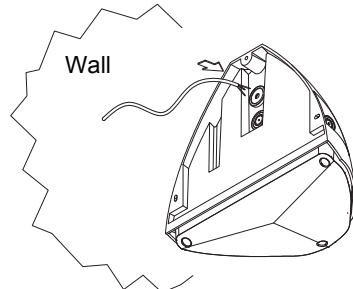
1



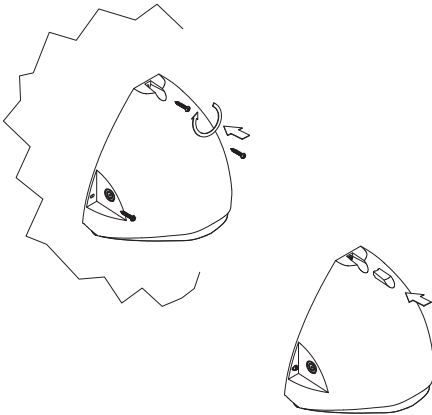
ALWAYS SWITCH OFF THE
MAINS SUPPLY BEFORE
INSTALLATION OR SERVICING



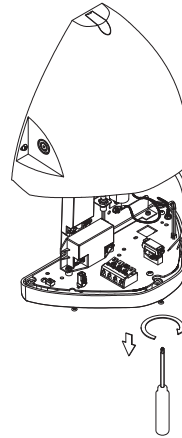
2



3



4




5

PRI
 Z

SEC+
 LED

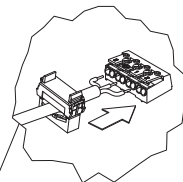
DIP-SWITCH



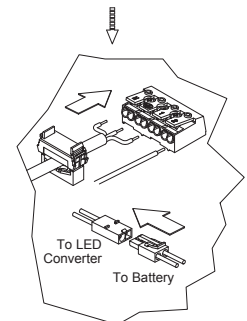
ON — OFF

Product	SL12-350H-C4	DIP Switch	
	Current Set	1	2
7W	200mA	OFF	OFF
9W	250mA	ON	OFF
11W	300mA	OFF	ON
12W	350mA	ON	ON

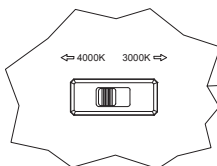
Select wattage by setting different current



Non-Emergency version

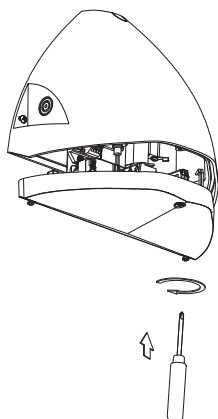


Emergency version

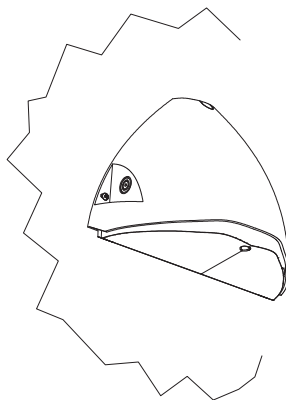


CCT changeable feature

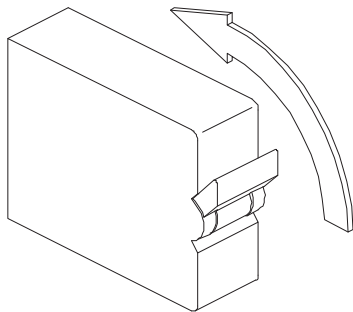
6



7



8



Emergency Version



Emergency Power: 1W Max
Emergency Lumen: 120lm
EM Duration: 3 hours
Charging Time: 24 hours
Ambient Temp: 0-45°C
Function: Maintained
Battery: LiFePO4 3.2V 1.6Ah
Warranty: EM converter 4 years
Battery 2 years



Routine Testing

Testing should be carried out in accordance with the recommendations of IEC61598-2-22.

1. Do not switch off UN-switched mains supply after installation. If interruption is unavoidable, the batteries must be disconnected or damage to the batteries may occur. Leave the luminaire on continuous charge for 24 hours.

2. A monthly functional test should be conducted manually.*1

3. Annually, a full three hour duration test should be conducted manually.*1

4. Batteries should be replaced when the luminaire no longer meets the 3 hours duration performance.

5. Testing is performed by interrupting the unswitched supply for the test duration manually or self-test function complying with IEC62034.

During testing the luminaire should remain light on in emergency mode.

6. Ensure that the 'charge indicator' is 'ON' during 'Charging Mode'.

If the charge indicator (LED) is unlit, this signifies a fault.

7. Replace faulty lamps immediately.

To assist with this testing, a test record is included below.

To increase the chance of a fault being reported between monthly tests, it is desirable that staff are made aware of the purpose of the indicator.

*1: Self-test version will do function and duration test automatically.

Testing Record

Product: _____

Location: _____

Installation Date: _____

	Testing Item:	Year 1	Year 2	Year 3	Year 4	Year 5
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						
Oct						
Nov						
Dec						

Dusk-to-dawn Switching

MS02 is suitable to built-in all type of LED lighting fixture and switches on/off lights till dusk to dawn.



Automatically turn on the light at dusk.



Stay illuminating continuously through the night



Switch off the light at dawn

Note: As MS02 is designed for LED lighting fixtures, it not applicable to tungsten and halogen lamp.

Setting

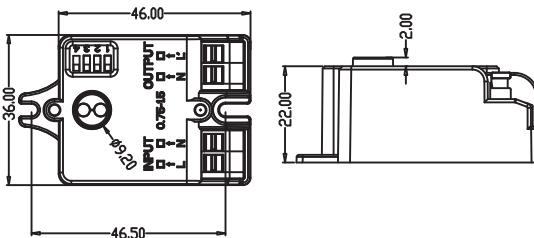
By selecting the combination of the DIP switches, switching ON/OFF lux level can be set as requirement.

	1	2	3	4	open	close
I	ON	ON	ON	ON	5Lux	25Lux
II	ON	ON	ON	-	10Lux	50Lux
III	ON	ON	-	ON	25Lux	75Lux
IV	ON	ON	-	-	50Lux	100Lux
V	ON	-	ON	-	100Lux	200Lux
VI	ON	-	-	-	150Lux	300Lux
VII	-	ON	-	-	200Lux	400Lux
VIII	-	-	-	-	Disable	

Night/Light Sensor Function

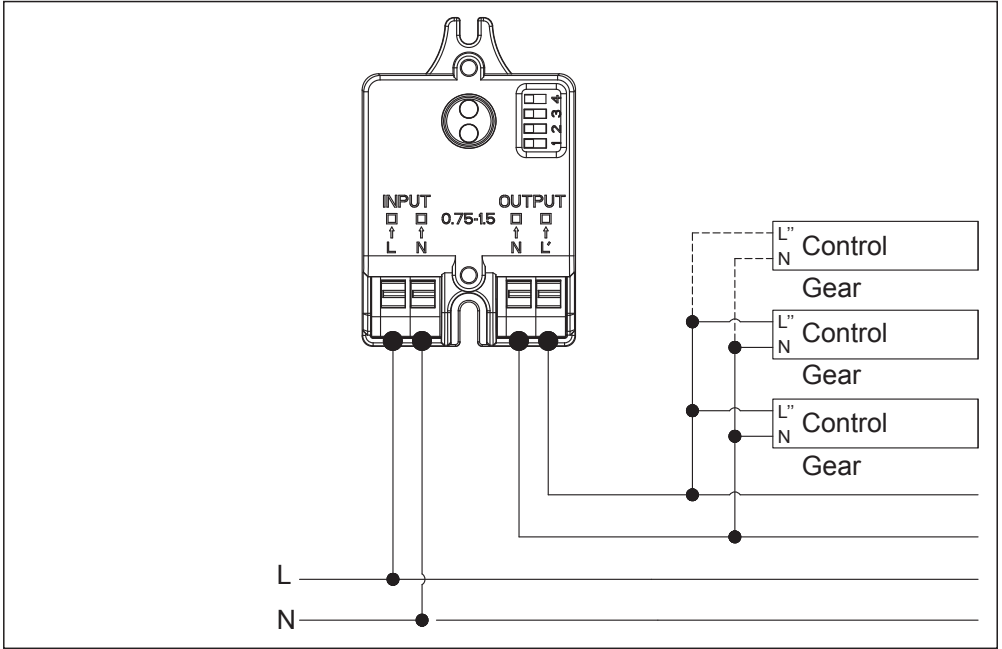
When ambient light level is below open lux level, sensor automatically switches on lights at 100% brightness.

When ambient light level is over close lux level, it switches off lights.



MS02	
Operating Voltage	220-240Vac
Rated Power	400W
Open/close	5lux/25lux, 10lux/50lux, 25lux/75lux, 50lux/100lux, 100lux/200lux, 150lux/300lux, 200lux/400lux.
Operating Temperature	-20°C~50°C
IP rating	IP20

Wiring Scheme

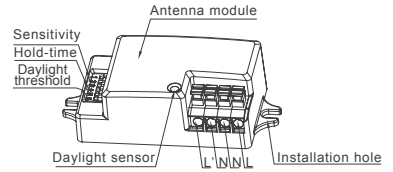


UC01 Microwave Sensor



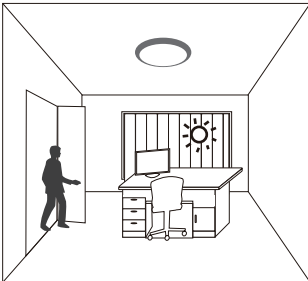
Specification

Detection range:	Max. installation height: 5m Max. detection range: Ø10m@3m installation height
Detection angle:	30° ~ 150°
Working temperature:	-20°C ~ 60°C
IP rating:	IP20

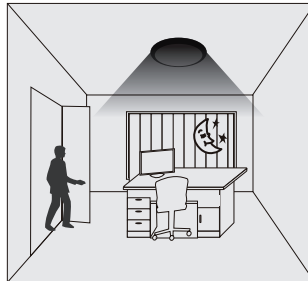


On/off function

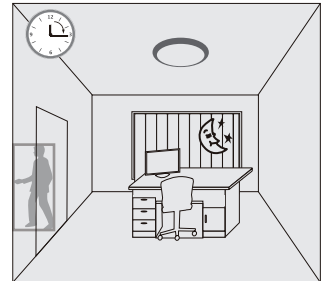
The motion detector can turn on the light based on movement. With this detector built in, light is automatically on when needed and off when not needed.



The light keeps off during daytime even when movement is detected. (Ambient lux level is above preset daylight threshold)

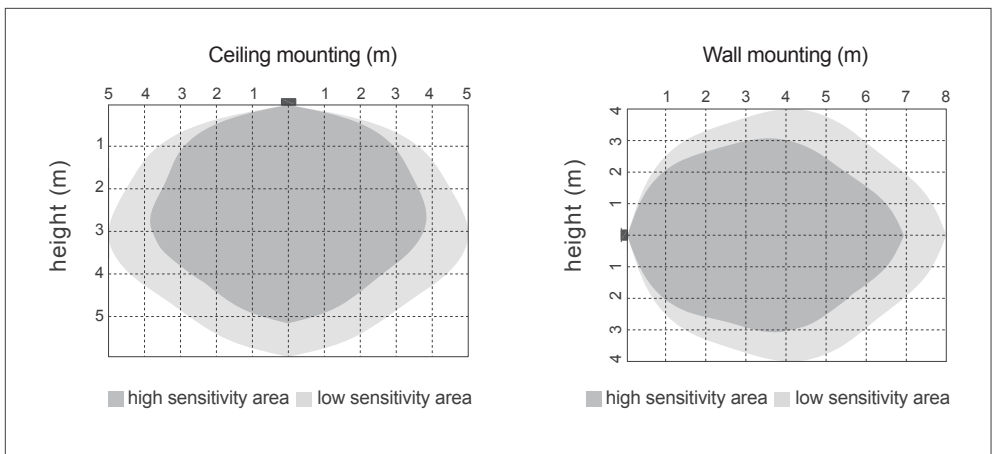


With movement and insufficient ambient lux level, the light is triggered on by the detector.

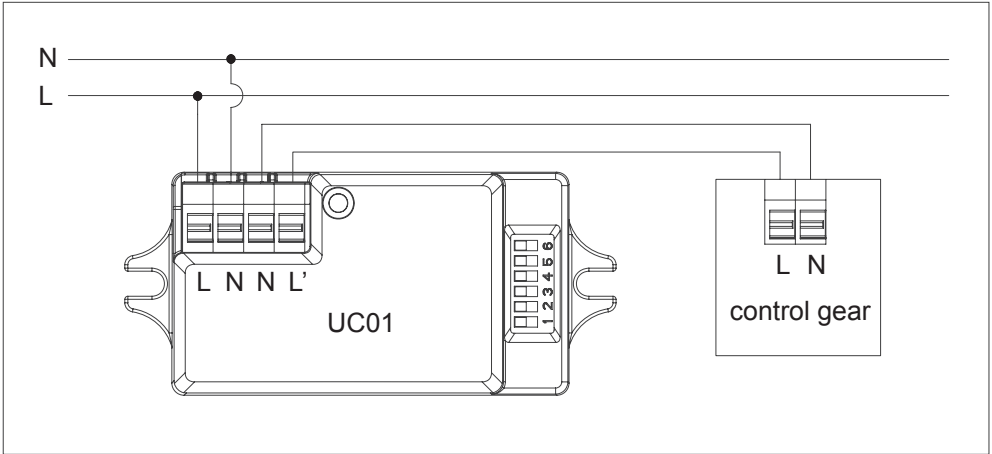


If there is no more movement, the light turns off automatically after hold-time preset.

Detection pattern



Wiring Scheme



Settings

1. Sensitivity

Sensitivity can be adjusted by selecting the combination on the DIP switches for different applications.

- I – 100%
- II – 75%
- III – 50%
- IV – 10%



	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	10%

2. Hold-time

Hold-time refers to the time period that the light remains 100% on if no more movement is detected.

- I – 5s
- II – 90s
- III – 5min
- IV – 15min



	3	4	
I	●	●	5s
II	●	○	90s
III	○	●	5min
IV	○	○	15min

3. Daylight threshold

Different daylight threshold can be preset on DIP switches. Light will always turn on upon movement if daylight sensor is disabled.

- I – Disable
- II – 50Lux
- III – 10Lux
- IV – 2Lux



	5	6	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2Lux