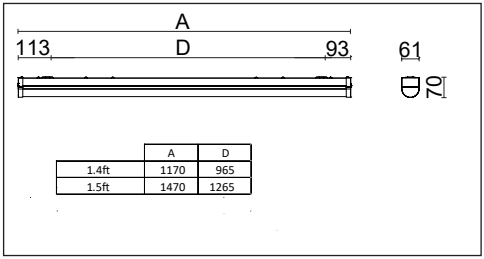
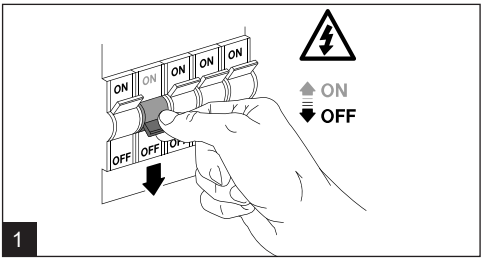
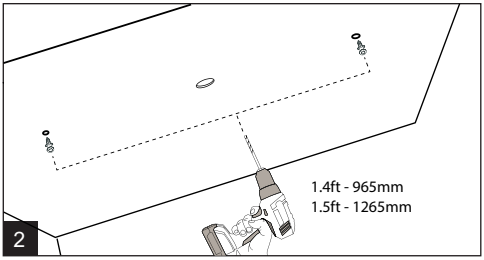
IP20

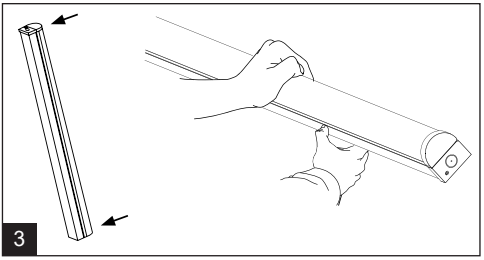
220-240V
50/60Hz

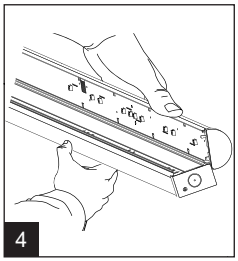


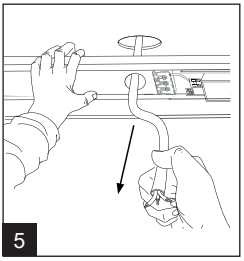
	A	D
1.4ft	1170	965
1.5ft	1470	1265

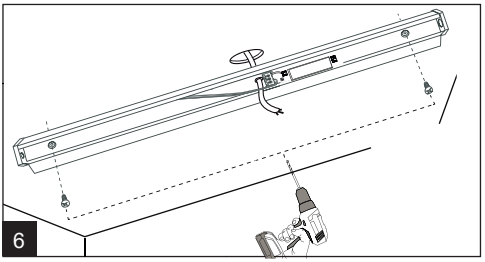


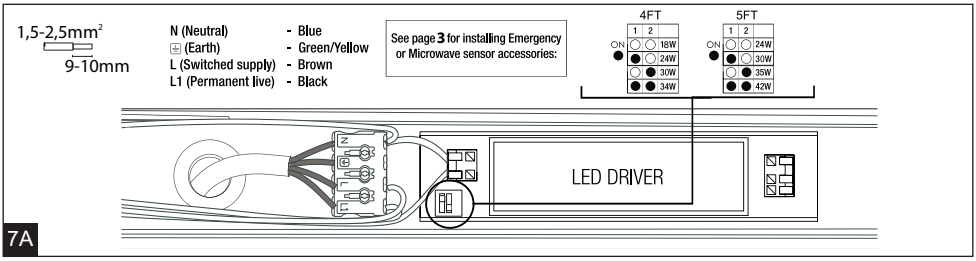


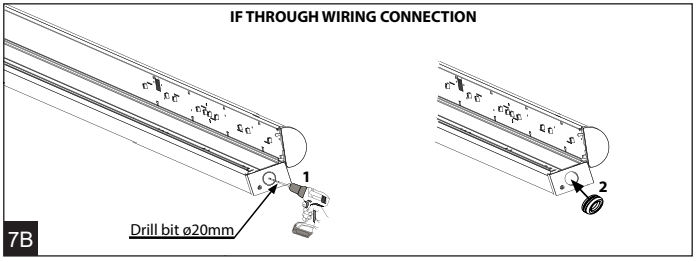




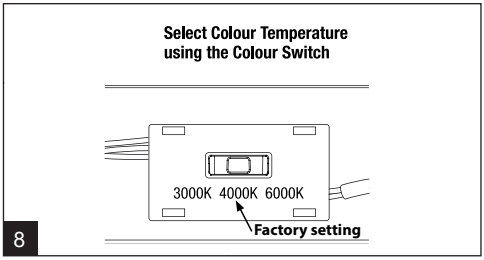


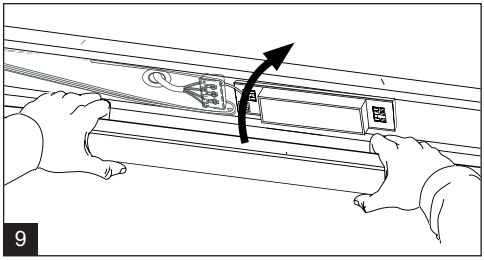


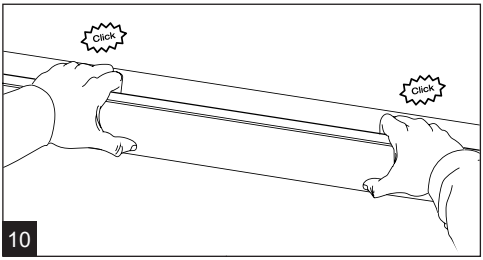




IP20 220-240V 50/60Hz







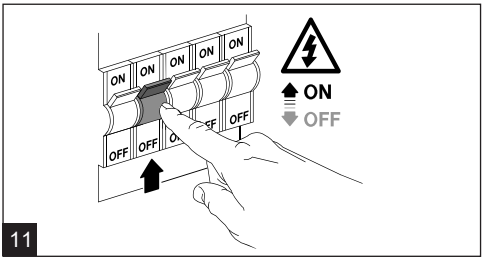
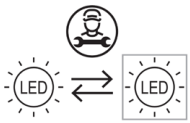
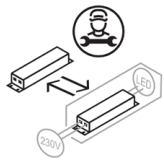


Table of maximal number of luminaires in one line				10A B Σ	16A B Σ	10A C Σ	16A C Σ
Length	∑lm	∑lm	∑lm	luminaires	luminaires	luminaires	luminaires
1.4ft	5400			10	23	25	35
1.5ft	6800			10	23	25	35

Installation can only be carried out by an authorized person and according to the mounting instructions. Any other installation is considered to be improper. For well installation and good luminaire work is necessary ensure a planarity of a mounting surface. Make sure that the luminaire is always disconnected from the power supply before the installation work. Do not use the luminaire if damaged or if damaged the power cable. Only damp microfiber cloth can be used for cleaning. Technical changes are subjected without notice. Do not dispose the luminaire or its parts as household waste, but make the proper recycling.

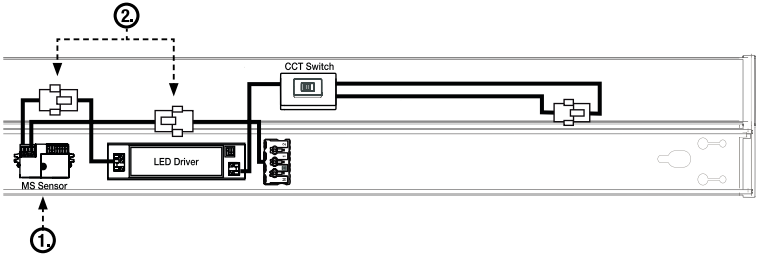
The light source in this luminaire may be replaced only by the manufacturer or its contractual service technician or similarly qualified person!

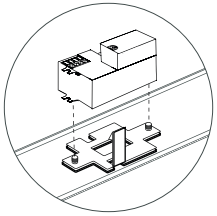




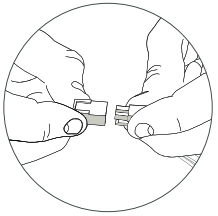
IP20 220-240V 50/60Hz

Installing Microwave Sensor Accessory:





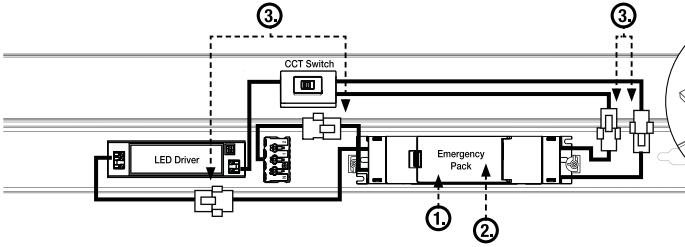
1. Install MS Pack

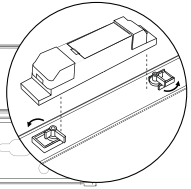


2. Reconnect Wires

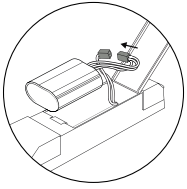
See page **4** for MS Sensor Dip Switch settings

Installing Emergency Pack:

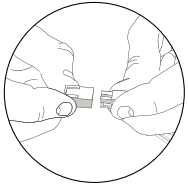




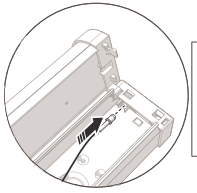
1. Install EM Pack use clips to secure



2. Open the case of the EM Pack and connect the battery plug



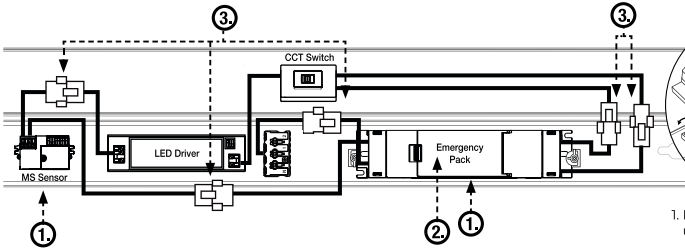
3. Reconnect Wires

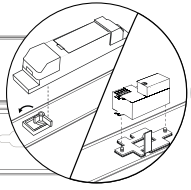


4. Install LED indicator into end cap

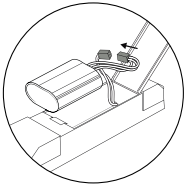
See page **5-6** for Emergency LED indicator information

Installing Microwave Sensor and Emergency Pack:

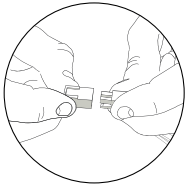




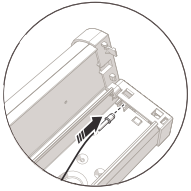
1. Install MS and EM Pack use clips to secure



2. Open the case of the EM Pack and connect the battery plug



3. Reconnect Wires

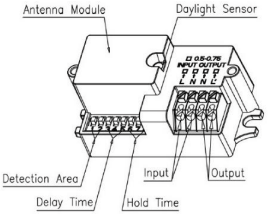


4. Install LED indicator into end cap

See page **4** for MS Sensor Dip Switch settings and See page **5-6** for Emergency LED indicator information

Microwave Sensor
MC119S



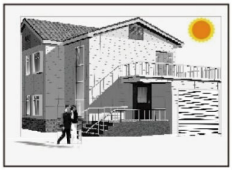


Sensor Parameters

Simple to operate: adjusting DIP switches to change detection area, hold time, daylight sensor and other parameters.

Function

(1) ON/OFF Function



With sufficient ambient light, the light will not be switched on even if with motion signal.



With insufficient ambient light, the sensor switches on the light when motion is detected.



After elapse of hold time, the sensor switches off the light when no motion is detected.

Setting daylight sensor to “Disable“ or ambient brightness is lower than the preset daylight sensor value, when detecting moving signals sensor starts working and light will turn on. When hold time ends, light will turn off.

(2) Override Function

Light will constantly remain on after continuously turning on and off light three times in two second. Recover sensing function when power on again.

DIP Switch Setting

(1) Detection Area

	1	2	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	25%

(2) Hold Time

	3	4	5	
I	ON	ON	ON	5S
II	ON	ON	-	30S
III	ON	-	ON	1min
IV	ON	-	-	3min
V	-	ON	ON	5min
VI	-	ON	-	10min
VII	-	-	ON	20min
VIII	-	-	-	30min

(3) Sensor

	6	7	8	
I	ON	ON	ON	2Lux
II	ON	ON	-	10Lux
III	-	ON	-	25Lux
IV	ON	-	-	50Lux
V	-	-	-	Disable*

*Setting “Disable“, sensor turns light when detecting moving object whether the daylight brightness is enough or not.
*Daylight thresholds are typical values that are measured on a sunny day without shadow and in an ambient light diffuse reflection status.

Initialization

After power on, the sensor automatically turns on light to 100% brightness and turns off light in 12 seconds. During initialization, sensor is not able to detect movement.

Factory Setting

Detection Area: 100%, Hold Time: 5S, Daylight Sensor: Disable.

Standard and Self-Test 2 in 1 Internal Emergency Module for LED Linear Luminaires APRB03-30/SS

Self-Test Mode: Automatic / Manual Testing User Guide

Commissioning

- Commissioning takes place by connecting the battery and then the un-switched supply. The battery must be connected first.
- The green LED will immediately flash 1 x second to indicate that there is a pending duration test.
- A functional test will occur at 5 minutes after commissioning to allow 5 minutes for battery charging to ensure there is some charge in the battery.
- A duration test will occur at a random point between 24 hours and 48 hours after commissioning to allow 24 hours for battery charging.
- Any faults found in the functional and duration testing will be reported via the LED indicator, as detailed below.
- Disconnecting the un-switched supply and then the battery resets the emergency module, clears all fault reports and forces a re-commission
- when the battery and then the un-switched supply are reconnected.
- **If the un-switched supply of an emergency lighting circuit is switched OFF/ON twice within 5 seconds, the schedule for all the emergency units in the emergency lighting circuit is reset (to the current time).**

Duration Testing (3 hours)

- An automatic duration test will occur at a random point between 24 hours and 48 hours after commissioning to allow for battery charging.
- An automatic duration test will occur semi-annually or annually at a random point in the 26nd or 52nd week of each year.
- A duration test will occur once the battery is fully charged after pressing the manual test button for 5-10 seconds.
- A duration test may be delayed by other events, such as a power cut that interrupts the test or a lack of charging time, in which case the green LED will flash 1 x second to indicate there is a pending duration test that the emergency module has rescheduled.
- Any faults found in the duration testing will be reported via the LED indicator, as detailed below.
- A functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear any faults.

Functional Testing (<2 minutes)

- A 5 seconds automatic functional test will occur at 5 minutes after commissioning.
- A 108 seconds automatic functional test will occur every 7 days.
- A manual 108 seconds functional test will start immediately after pressing the manual test button for 1-2 seconds.
- Any faults found in the functional testing will be reported via the LED indicator, as detailed below.
- A functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear any faults.

Manual Testing

- Manual functional test: Press the manual test button for 1-2 seconds. A manual functional test lasting <2 minutes will start immediately.
- Manual duration test: Press the manual test button for 5-10 seconds. A manual duration test will occur once the battery is fully charged after pressing the manual test button for 5-10 seconds.

Pending Duration Testing

- A duration test may be delayed by other events, such as a power cut that interrupts the test or charging period, in which case the green LED will flash to indicate there is a pending duration test that the emergency module has rescheduled until charging is complete.

Lamp or Luminaire Fault

- Turn off the supply and replace or correct the fault with the lamp or luminaire, and then reconnect the supply.
- Press the manual test button for 1-2 seconds. A manual functional test lasting <2 minutes will start immediately to clear the fault.
- Alternatively press the manual test button for 5-10 seconds. A manual duration test will occur once the battery is fully charged.
- If the battery and power have been disconnected the emergency module will re-commission and automatically test the replacement.
- A successful functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear fault reports.

Battery Fault

- Turn off both the un-switched and switched supply and replace the battery, and then reconnect the supply.
- If the battery fault was due to the battery not being connected, both the un-switched and switched supply must off when connecting the battery to clear the battery fault.
- The emergency module will re-commission and so automatically test the replacement at a random point between 24 and 48 hours after commissioning to allow for battery charging.

Standard Mode: Manual Testing User Guide

- The battery leaves the factory in a semi-charged state but may take up to 24 hours to fully charge for a 3-hour test. Charge for 5 minutes before performing a functional test to ensure there is some charge in the battery.
- To fully test the emergency function, the un-switched supply will need to be switched off. A quick functional test can be performed by pressing the test button.
- Replace the battery when the emergency module fails to meet the 3-hour duration requirement in testing.

Rest Mode

- Emergency operation is automatically started when the mains supply is switched off. Rest mode can be activated during emergency mode by doubling press the manual test button. The discharging of the battery will be minimized by switching off the LED output. The rest mode will be exited automatically after reconnect the supply.

Luminaire may not be switched from mains the first 168 hours after inicialization!!
Luminaires are not suitable for areas with frequent disconnection of the mains.
In such areas battery life and safety can not be guaranteed.

LED Indicator

System status is locally indicated by a bi-coloured LED indicator.

LED indication		Description	Status	Standard Mode	Self-test Mode
		Green Permanently On	System Healthy	✓	✓
		Permanently OFF	Emergency Mode: Mains failure or mains disconnected	✓	✓
			Battery disconnected	✓	N/A
		Green Slow Flash (0.5s on-0.5s off)	Duration Test Pending	N/A	✓
		Green Medium Flash (0.25s on-0.25s off)	Duration Test Running	N/A	✓
		Green Fast Flash (0.125s on-0.125s off)	Functional Test Running	N/A	✓
		Red Permanently On	Battery Charging Fault	N/A	✓
		Red Medium Flash (0.25s on-0.25s off)	Battery Duration Fault	N/A	✓
		Red Fast Flash (0.125s on-0.125s off)	Lamp or Luminaire Fault	N/A	✓
		OFF 1s then Red Stay On 5s	26 Weeks Duration Test Interval	N/A	✓
		OFF 1s then Red Fast Flash 5s (0.125s on-0.125s off)	52 Weeks Duration Test Interval	N/A	✓
		OFF 1s then Green Fast Flash 5s (0.125s on-0.125s off)	Standard mode	✓	N/A
		OFF 1s then Green/Red Fast Flash 5s (0.125s on-0.125s off)	Self-test mode	N/A	✓

Functionality of the test button

The test button enables you to make a series of settings manually.

Test button		Description	Function	Standard Mode	Self-test Mode
		Hold down	Manual functional test	✓	N/A
	1-2s	Press 1-2s	Manual functional test	N/A	✓
	5-10s	Press 5-10s	Manual duration test	N/A	✓
	< 1s	Press <1s	Confirm the current duration test interval	N/A	✓
	< 1s	Double press <1s	Set the duration test interval	N/A	✓
	< 1s	Double press <1s during emergency mode	Rest mode activated	✓	✓
	< 2s	Triple press <2s	Set test mode (Standard/Self-test)	✓	✓