STD
Specifications

LED Batten Light

DB186A/B-PLUS Series

UPSHINE®

Introduction

This is a high quality LED batten with high lumen efficiency and modular design. It adopts high lumen efficiency SMD light source, PC cover is internal stripe design which makes a uniform light output. Based on adjustable CCT and adjustable power functions, it has plug in/plug out modular with microwave sensor, emergency, microwave sensor+emergency which can be stocked as accessory. For installation, it utilizes plastic flexibility to clips the light source part into bracket, the end cap mounting hole allows loop in/ loop out connection, which offers more possibility for wider applications.

Features

- Compact design with screwless surface, which fits the ceiling tightly
- Adjustable power with DIP switch
- High lumen efficiency, 150lm/W@4000K
- Functions: adjustable CCT, microwave sensor, emergency, microwave sensor+emergency
- End cap with mounting hole for loop in/ loop out connection
- Size options:1200/1500/1800mm
- Internal flicker free driver

Application Areas

It is widely used in workshop, warehouse, parking lot, factories, shopping mall etc.

DB186A

CCT Selection DIP Switch

DB186B

120° | Emergency | Sensor | Color changeable (WW NW CW) | Adjustable Power (XXW XXW XXW) | IP20 | PF 0.9 | CRI ≥80 | 50000 HOURS
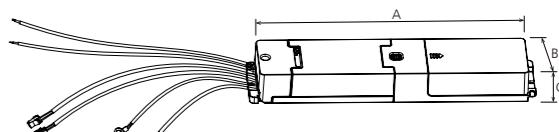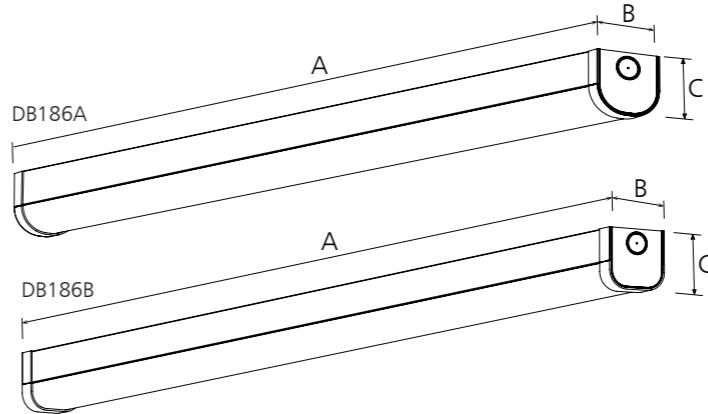
DB186A

DB186B

ACC-DB186-1500-E
ACC-DB186-1800-E
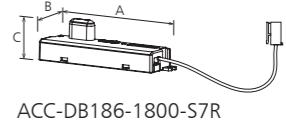
ACC-DB186-1800-S7R

Technical Data Sheet

Code	DB186A-1200-40W DB186B-1200-40W	DB186A-1500-50W DB186B-1500-50W	DB186A-1800-60W DB186B-1800-60W
Dimension(mm)	1200*65*66	1500*65*66	1800*65*66
Cutout (mm)	-		
Watt(W)	40W@max (optional:35W / 25W / 20W)	50W@max (optional:40W / 35W / 25W)	60W@max (optional:50W / 40W / 30W)
Rated Input Voltage	AC 220-240V		
Input Voltage	AC 198-264V		
LED Module Input	-		
Light Source	SMD		
SDCM	< 6		
CCT(K)	1-CCT: 3000K/4000K/5000K/5700K || 3-CCT: 3000K + 4000K + 5700K		
CCT Selection DIP Switch	YES		
Luminous Flux (lm) ±5% CRI80 — 1-CCT — Non-DIM	20W: 2800-3100 25W: 3550-3850 35W: 4950-5250 40W: 5600-6000	25W: 3600-3900 35W: 4950-5400 40W: 5650-6100 50W: 7000-7500	30W: 4400-4800 40W: 5600-6000 50W: 7000-7500 60W: 8400-9000
Luminous Flux (lm) ±5% CRI80 — 3-CCT — Non-DIM	20W: 2800-3100 25W: 3550-3850 35W: 4950-5250 40W: 5600-6000	25W: 3600-3900 35W: 4950-5400 40W: 5650-6100 50W: 7000-7500	30W: 4400-4800 40W: 5600-6000 50W: 7000-7500 60W: 8400-9000
CRI	80		
Beam Angle (°)	120°		
UGR	-		
LED Driver	Driver built-in		
Dimming Option	-		
Sensor	Microwave sensor		
Emergency Kits	YES		
Electrical Class	Class I		
Ingress Protection(IP Rating)	IP20		
Impact Resistance(IK Rating)	IK06		
Product Finishing	White RAL 9016		
Optics Material	PC		
Housing Material	PC / SPCC		
Lifetime (hr)	50,000H		
Glow wire test (°C)	750℃		
Operating Temp.(°C)	-20~40°		
Storage Temp.(°C)	-20~65°		
Installation	Surface mount / Pendant		

Measurement

Code	Dimension(mm) A	Dimension(mm) B	Dimension(mm) C	Size(mm)	Product Weight (Kg) N.W/PC	Product Weight (Kg) G.W/PC	Package weight (Kg) N.W/CTN	Package weight (Kg) G.W/CTN	Carton Size(cm)	Qty/ CTN	20GP (pcs)	40HQ (pcs)
DB186A/B-1200	1200	65	66	1200*65*66	0.95	1.34	5.7	8.88	131.5*24.5*19.5	6	2508	5928
DB186A/B-1500	1500	65	66	1500*65*66	1.14	1.61	6.84	10.66	161.5*24.5*19.5	6	2046	4992
DB186A/B-1800	1800	65	66	1800*65*66	1.33	1.88	7.98	12.44	191.5*24.5*19.5	6	1782	4212
ACC-DB186-1800-S7R	104	26	28	104*26*28	0.03	0.046	2.16	3.72	35*26*22.5	72	99360	220968
ACC-DB186-1500-E	203.5	42	25	203.5*42*25	0.23	0.27	11.50	14.25	47*29*42.5	50	23250	56700
ACC-DB186-1800-E	203.5	42	25	203.5*42*25	0.23	0.27	11.50	14.25	47*29*42.5	50	23250	56700

Driver Datasheet(Non-dimmable)

Total load wattage		40W/35W/25W/20W	50W/40W/35W/25W	60W/50W/40W/30W
Output	Rated output current	270mA@max(optional:230mA / 170mA / 135mA)	335mA@max(optional:270mA / 235mA / 170mA)	420mA@max(optional:360mA / 275mA / 210mA)
Output	Output Voltage range	DC120-150V		
Output	Line Regulation	±5%		
Output	Setup Rise Time	≤0.5S @230V		
Output	Flickering Index	3%(NO RISK)		
Input	Rated Input Voltage	AC 220-240V		
Input	Input Voltage	AC198-264V		
Input	Frequency	50/60Hz		
Input	Rated Input Current	0.2A	0.25A	0.3A
Input	Input Current	0.21A	0.27A	0.31A
Input	Power Factor	≥0.9		
Input	THD	<20% @230V@ MAX Power		
Input	Efficiency	≥90%@ MAX Power		
Input	No load wattage	<1W @ 230Vac		
Protection	Short circuit protection	PASS		
Protection	Over voltage protection	PASS		
Protection	Over temperature protection	PASS		
Safety & EMC	Withstand voltage	-		
Safety & EMC	Isolation Resistance	–		
Safety & EMC	Surge	IEC/EN61000-4-5 (P≥25W L-N:1KV, L/N-PE:2KV)		
Safety & EMC	EMC Emission	EN55015, EN61000-3-2		
Safety & EMC	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547		

Datasheet (Emergency)

Input power	3W
Discharge power	2W
Rated Input Voltage(V)	AC230V
Frequency	50/60Hz
Input Voltage	AC200-240V
Rated Input Current	≤0.03A
Battery	6.4V 1500mAh (LifepO4)
Lifetime	Over 2000 cycles
Battery duration	≥3hrs
Charge Period	≤24hrs
Emergency switching time	≤1S
Emergency Operating Temp. (℃)	0℃-25℃

Instructions for automatic test option(AT-version)

1.Once the unit is powered up it will automaticlly initiate a self test and diagnostics as follows:
• Every 4 seconds: Checks for battery disconnection,charger board fault,lamp failure and transformer failure.
• Every month: Performs a 3 minutes duration test.
• Every yeat: Performs a 3 Hours duration test.
All test functions are factory preset and do not need field adjustment.

2.Dual Colour Indicator LED Status Mesnings

Green	Solid On	Ready/Normal Operation
	Flashing	Testing
Red		Requires Service
•	One flash, 4 seconds pause	Battery not connected
••	Two flashes, 4 seconds pause	Low battery voltage
•••	Three flashes, 4 seconds pause	Charger board fault
••••	Four flashes, 4 seconds pause	Charger board fault

NOTE:After repairing a service fault,press and hold the test button for 2 seconds to reset the flashing indicator light to green.

3.Manual Testing

Press test button once	30 seconds duration test
Press test button twice within 2 seconds	3 minutes duration test
Press test button 3 times within 2 seconds	30 seconds duration test
Press test button 4 times within 2 seconds	3 hours duration test

Note:
1) After repairing the fault, press and hold the test button for 2 seconds to reset the flashing indicator light to green.
2) This product should be installed by a registered electrician in accordance with local standards and electrical regulations.
3) Ensure the power supply is under isolated before installation.
4) Sealed LiFePO4 rechargeable battery pack, the battery should be replaced when the required duration is no longer achieved.
5) To avoid any damage to the fixture and ensure its performance, the battery should be replaced with same brand and type.

Datasheet (Sensor)

Operating Voltage	8-12V DC
Power consumption	0.5W±0.2W
Microwave frequency	5.8GHz±75MHz, ISM wave band
Transmission power	<0.5mW
Detection angle	140°
Detection Area	4-6M 100%/75%/50%/25%
Hold time	5S/30S/3min/10min
Daylight sensor	15Lux/50Lux/150Lux/Disable
Stand-by DIM Level	20% / 30%
Stand-by Period	0S/1min/10min /+∞
Dimming Range	-
Microwave ON/OFF function	-
Installation Height	Recommended Installation Height: Ceiling mounted height 3m
Minimum mounting dustance	recommended mounting distance should be more than 3m
Operating temperature(℃)	-20℃ ~60℃
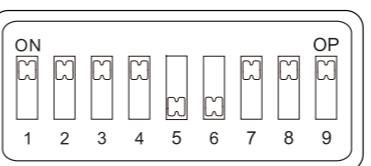
Sensor Setting:

Factory settings				
Detection Area	Hold Time	Daylight Sensor	Stand-by Period	Stand-by DIM Level
100%	5S	Disable	0S	20%

Detection area:

Sensor test condition: The test is based on 3m height, the detect distance radius is based on ground, the detect distance can be adjusted through the slide switch.

Sensor test environment and reference: The detective range is measured by human body whose stature is around 1.6-1.7M with medium size and traveling speed is around 1.0-1.5M per second. If the stature, bodily form and traveling speed are changed,then the detective range will be changed accordingly.

Sensor lamp's reaction under open/narrow environment: Test result will be highly influenced by test environment, the more open environment, the closer detect distance; the narrower environment, the longer detect distance. The detector may do self-excitation in a narrow environment.

Sensor Setting based on environmental disturbance: Some environmental disturbances will cause abnormal induction, such as the lamp can not automatically turn off for a long time or the sensor function is invalid, then users can adjust sensor distance to reach the ideal effect. It is recommended to adjust the sensing distance to 50% for the environment where near the heavy equipment, metal sheets and metal pipes, concretewall(<30cm thickness)etc. Recommend to keep 100%sensordistance in open environment. For environment where near the routers, telecommunications base stations, electrical machinery etc, it is recommended to keep the installation distance of more than 5 meters and adjust to 50% sensor distance.

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

Hold Time		
	3	4
I	ON	ON	5S
II	ON	-	30S
III	-	ON	3min
IV	-	-	10min

Hold time:

Notice 1: The hold time can be selected by the slide switch.

The hold time counting should be started after the sensor is powered on and initialized.

Daylight Sensor				
	5	6	Open	Close
I	ON	ON	15Lux	150Lux
II	ON	-	50Lux	150Lux
III	-	ON	150Lux	300Lux
IV	-	-	Disable	Disable

Daylight sensor:

Notice 1: The light threshold can be selected through the slide switch, it may cause a large deviation in different lamps.

Notice 2: Daylight priority function: Set stand-by period to +∞, daylight sensor will be priority status. When the ambient light is lower than the daylight sensor setting lux, the lamp will turn on automatically if it detects a moving object. After the moving object leaves, the sensor will enter into stand-by Dim Level, if ambient light is more than ON/OFF lux, the lamp will keep OFF status.

Stand-by Period			
	7	8	
I	ON	ON	0S
II	ON	-	1min
III	-	ON	10min
IV	-	-	+∞

Stand-by Period:

Notice: Be daylight priority when setting to "+∞"

Stand-by DIM Level		
	9	
I	ON	20%
II	-	30%

Detection Range Diagram

Ceiling Mounting pattern(Unit: m)

Ceiling mounting height (m): 1m 2m 3m 4m 5m 6m 7m 8m

6m 5m 4m 3m 2m 1m 0m 1m 2m 3m 4m 5m 6m

■ High detection area　■ Low detection area
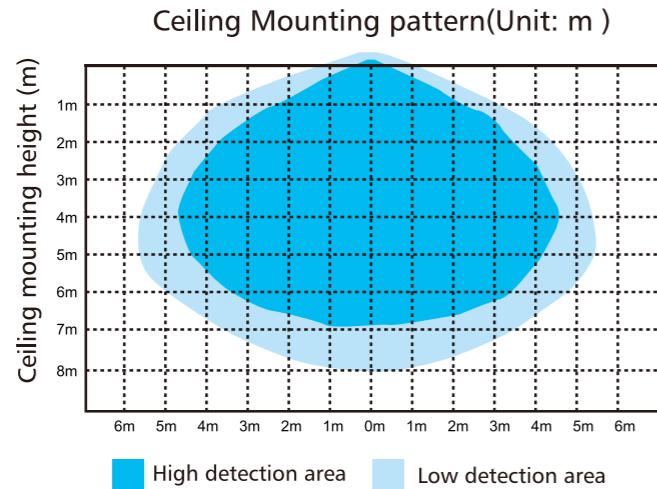
| Function Table	DB186A-1200-40W DB186B-1200-40W	DB186A-1500-50W DB186B-1500-50W	DB186A-1800-60W DB186B-1800-60W
Non-dim Wattage Switchable	√	√	√
Non-dim Wattage Switchable + CCT Switchable	√	√	√
Non-dim Wattage Switchable + Emergency	√	√	√
Non-dim Wattage Switchable + CCT Switchable + Emergency	√	√	√
Sensor + CCT Switchable	√	√	√
Non-dim Wattage Switchable + CCT Switchable + Sensor	√	√	√
Non-dim Wattage Switchable + Emergency + Sensor	√	√	√
Non-dim Wattage Switchable + CCT Switchable + Emergency + Sensor	√	√	√

Installation Procedure

WARNING

1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.

Turn Off Power Supply
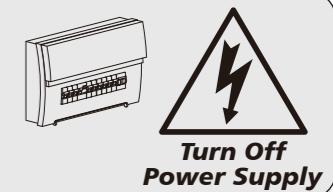
Surface mount installation

Code	A-01	A-02	A-03	A-04
ACC	X1	X1	X2	X2

select preferred colour temperature for product in CCT change function only

A-01

sensor location

A-02

3 | 4

A-02

Emergency kit location

5 | 6

CLICK

❶

❷ ⬆

COMPLETE

10 | 11
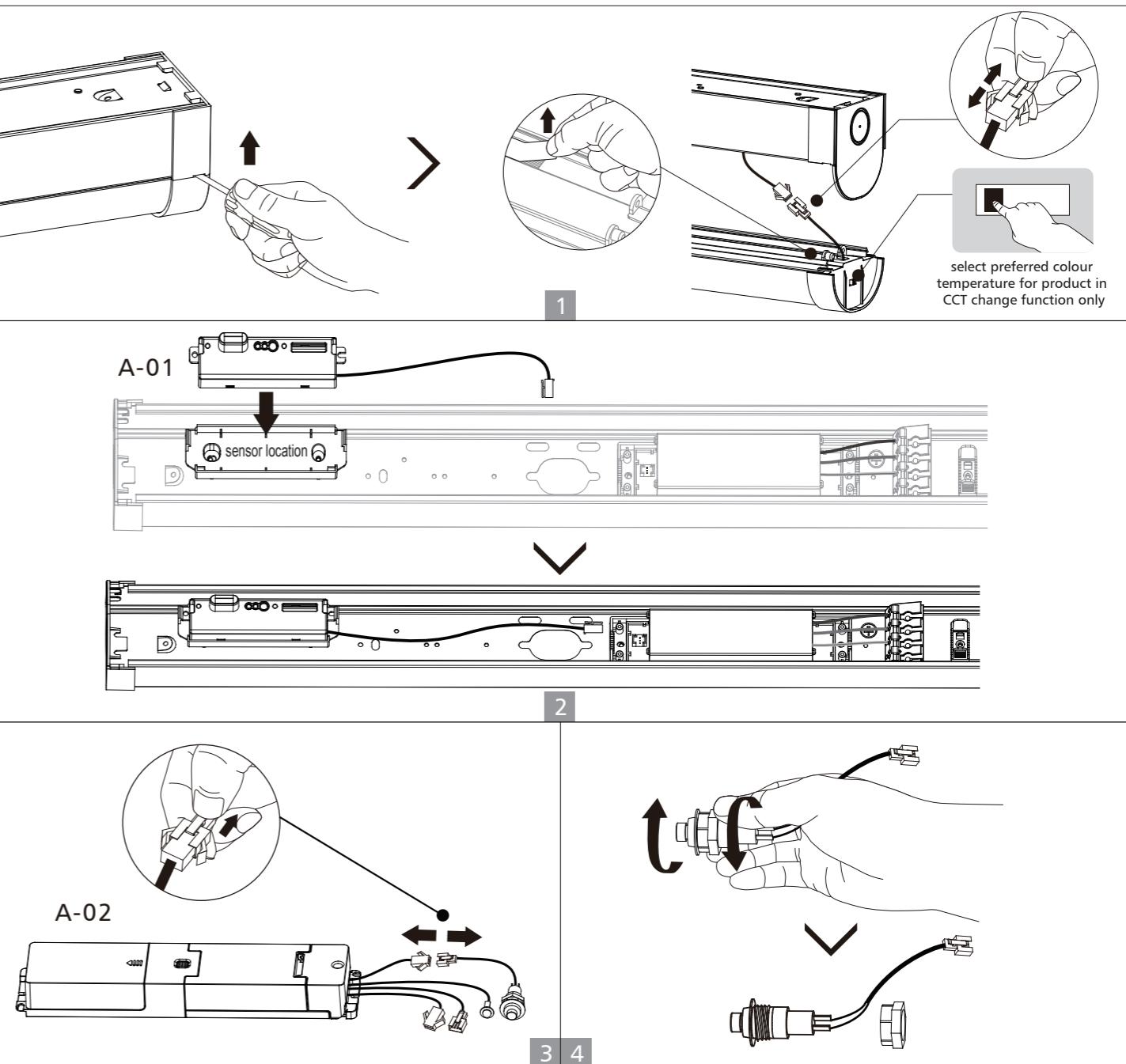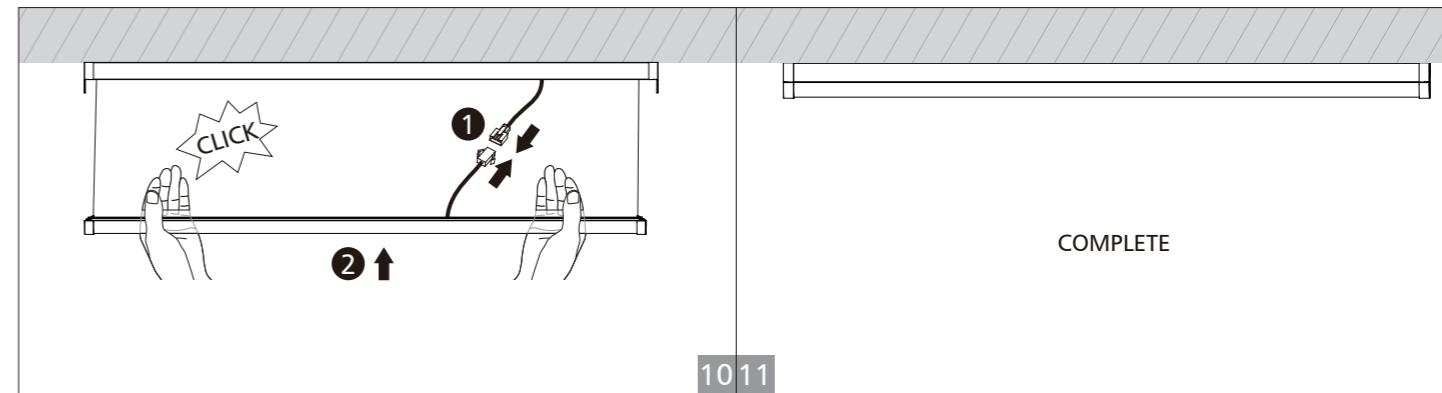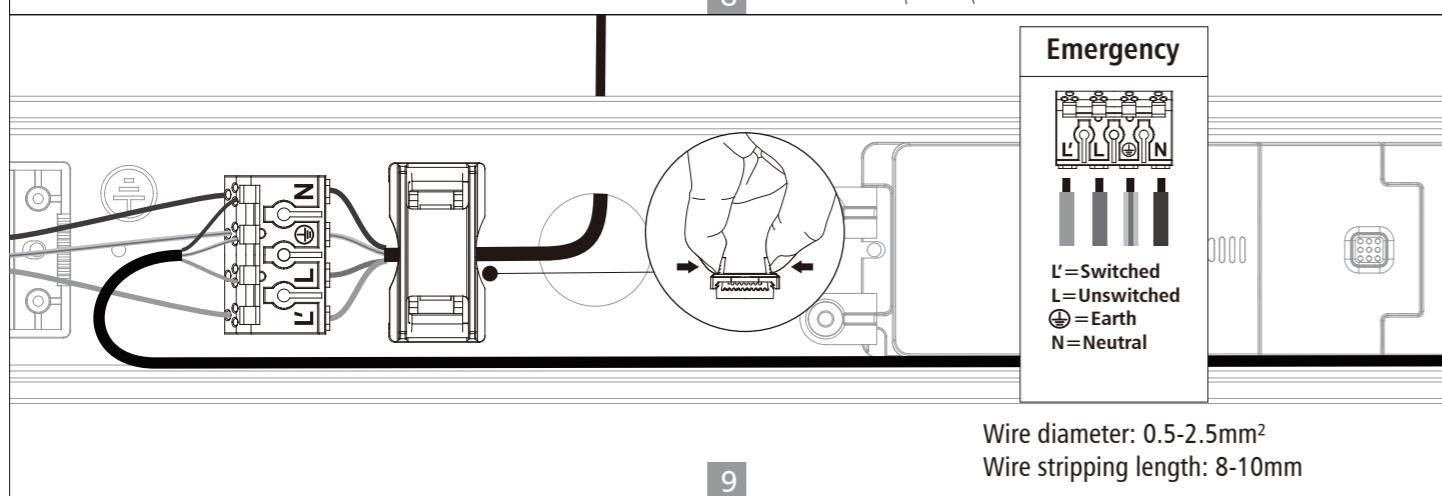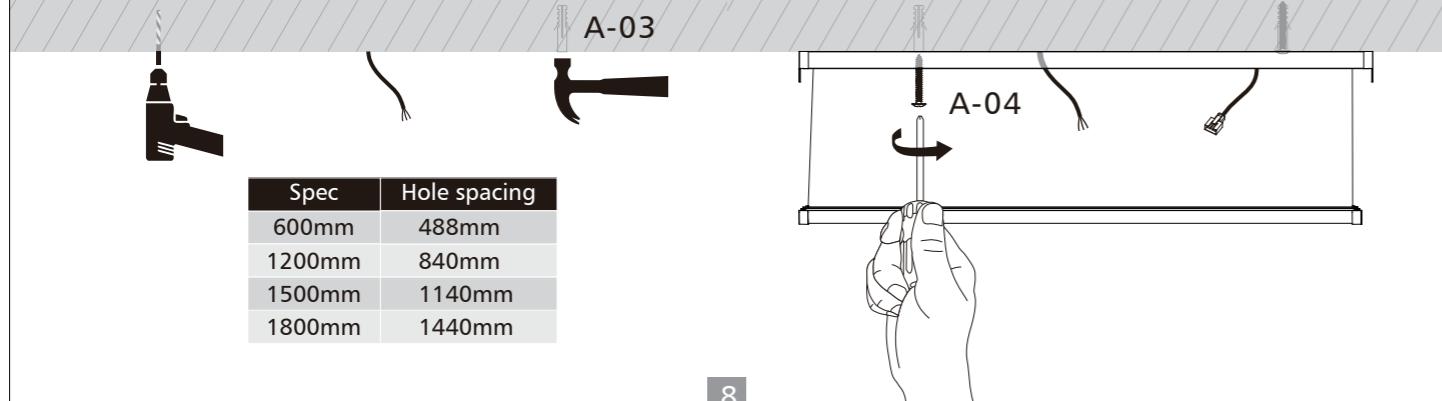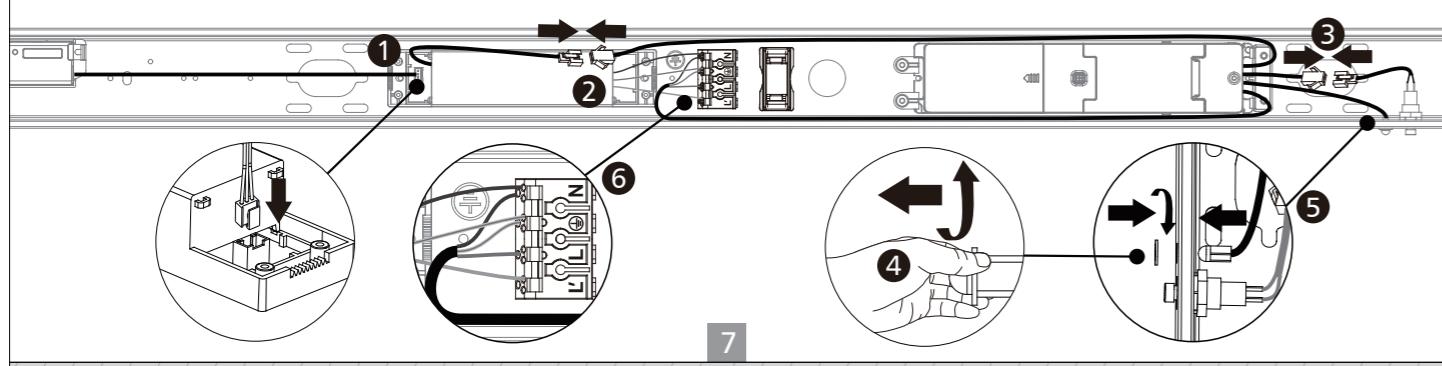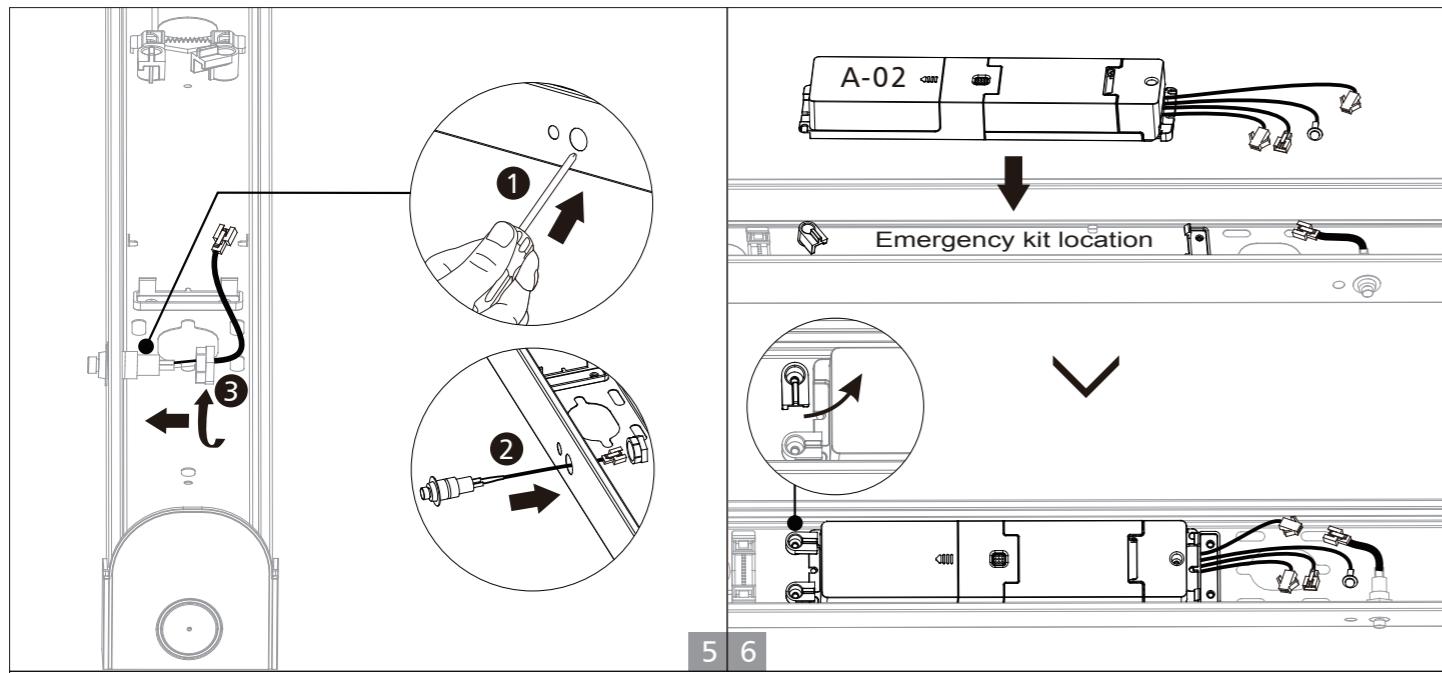
Splicing for surface mount installation

A   B   CDEF...

❶   ❷

❸ ⬆

splicing to 2000W max

❶ ❷ ❸ ❹ ❺ ❻

7

A-03

A-04

Spec	Hole spacing
600mm	488mm
1200mm	840mm
1500mm	1140mm
1800mm	1440mm

8

1 | 2

Emergency

L' L ⏚ N

L'=Switched
L=Unswitched
⏚=Earth
N=Neutral

Wire diameter: 0.5-2.5mm²
Wire stripping length: 8-10mm

9

L'		Switched
L		Unswitched
⏚		Earth
N		Neutral

Wire diameter: 0.5-2.5mm²
Wire stripping length: 8-10mm

3
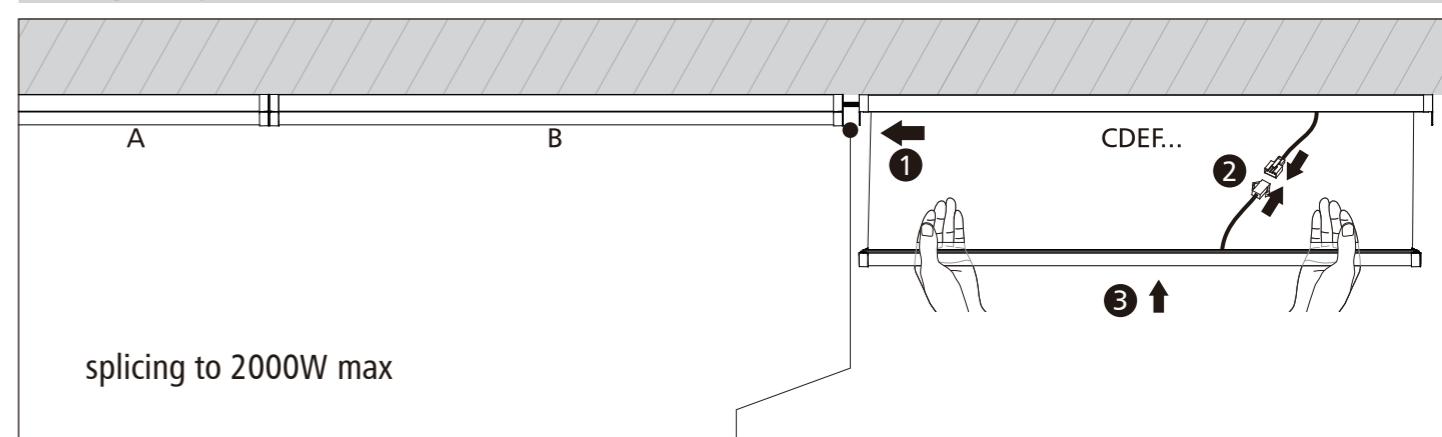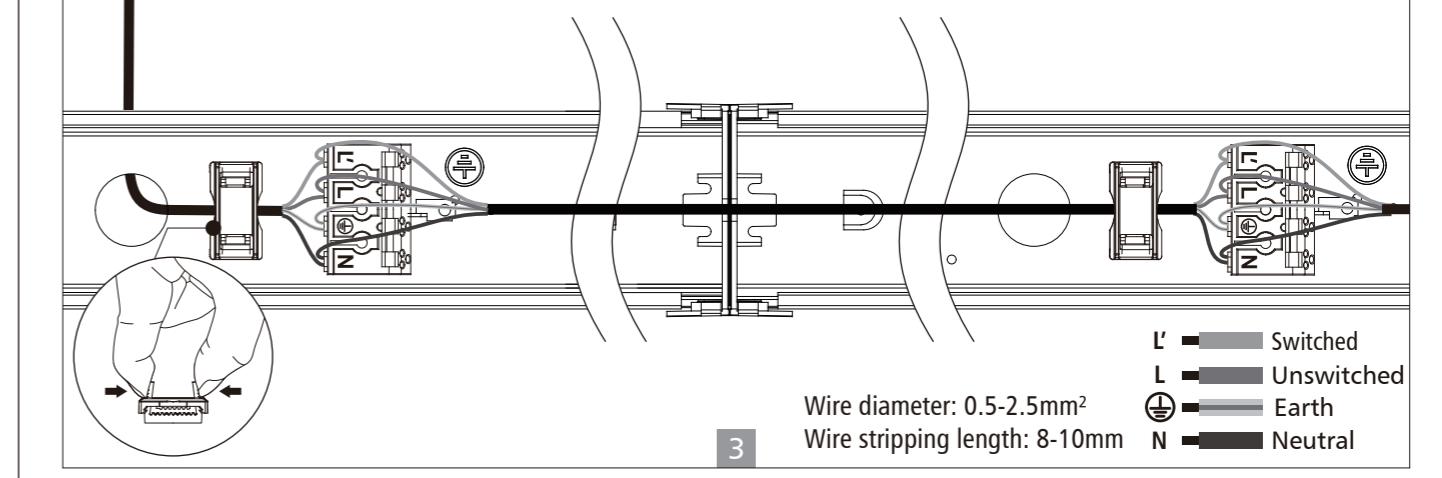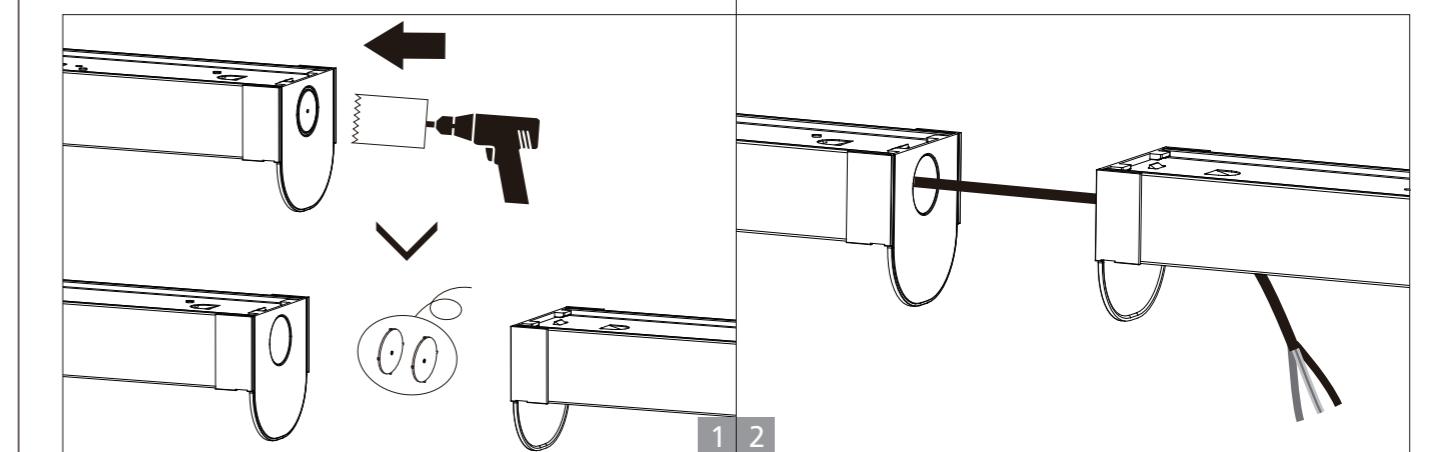
Pendant installation

Code	A-01	A-02	A-03	A-04	A-05	A-06
ACC	X1	X1	x2	x2	x2	x2

select preferred colour temperature for product in CCT change function only

1

A-01

sensor location

2

A-02

3 4

A-02

Emergency kit location

5 6

7

6

N
L
L

8 9

A-03
A-05
A-04

Spec	Hole spacing
600mm	540mm
1200mm	860mm
1500mm	1160mm
1800mm	1460mm

A-06

A-04

A-06

Press to adjust the length of the suspention wire

10 11

Emergency

L'=Switched
L=Unswitched
⊕=Earth
N=Neutral

Wire diameter: 0.5-2.5mm²
Wire stripping length: 8-10mm

A-06

❸

❶

CLICK

❷ ↑

COMPLETE

ECO
Specifications

STD
Specifications

PRO
Specifications

ODM
Specifications
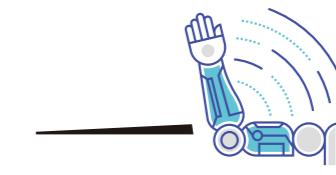
INT
Intelligent

UPSHINE | *Up to Shine, there is life*
光之上，是生活