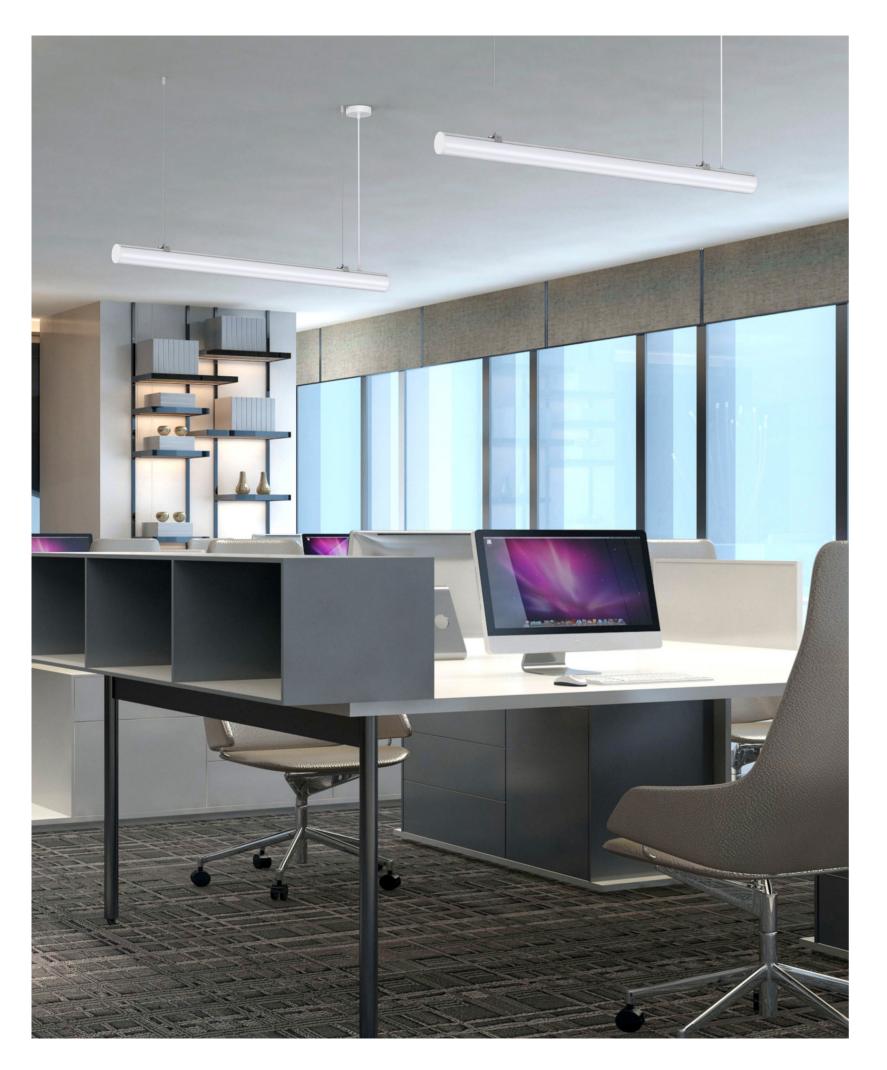


LED BATTEN
DB181 Series



### Introduction

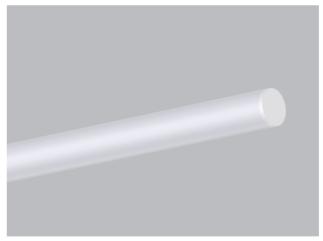
This is a cylinder shape batten light with 200 degree lighting surface. It mainly adopts PC lampshade for big lighting surface for uniform light output. 600mm/1200mm/1800mm standard size optional, it also supports to cut different sizes. What's more, to meet more application areas, it can do microwave sensor, emergency, triac, 0-10V, DALI dim, and available for splicing, surface mount, wall mount, pendant installation.

### **Features**

- Wide emitting angle with 200 degree
- Easy splicing way for multiple lamps
- Interchangeable CCT(3000K+4000K+5700K) with DIP switch
- High lumen efficiency, 120lm/W for energy saving
- Functions: Microwave sensor, Emergency
- Flexible mounting ways: surface mount/ wall mount/ pendant/ splicing
- Dimming ways: Triac, 0-10V, DALI
- Internal flicker free driver

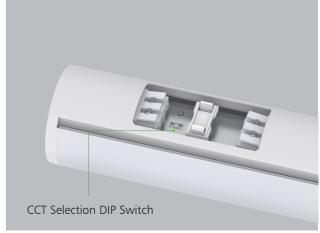
## **Application Areas**

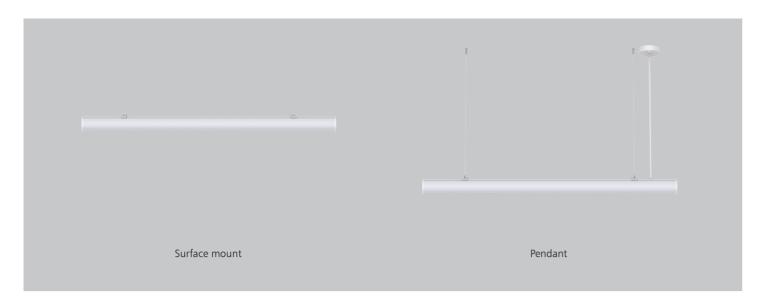
It is widely used in office, meeting room, museum, workshop, supermarket, warehouse etc.





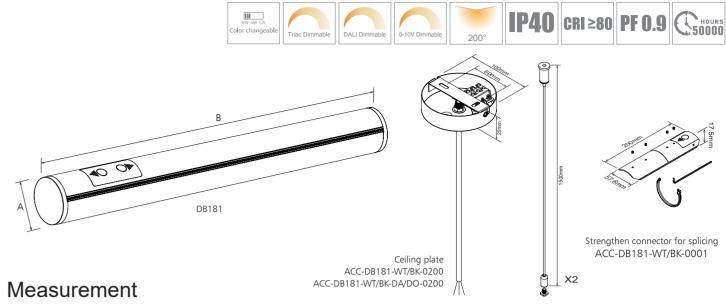






### Technical Data Sheet

Code			DB181-600-20W	DB181-600-23W-S7	DB181-1200-38W-S7	DB181-1200-40W	DB181-1800-56W-S7	DB181-1800-60V
Dimension(mm	n)		Ø72*L600	Ø72*L600	Ø72*L1200	Ø72*L1200	Ø72*L1800	Ø72*L1800
Cutout (mm)				-				
Watt(W)		20W	23W	38W	40W	56W	60W	
Rated Input Vo	ltage				AC220-	-240V		
Input Voltage					AC198-	-264V		
LED Module In	put				-			
Light Source					SM	D		
SDCM					< 6	5		
CCT(K)				1-CCT: 3000K/	/4000K/5000K/5700K	3-CCT: 3000K + 4	1000K + 5700K	
CCT Selection [	DIP Swi	tch			NO	)		
Luminous Flux	1_CCT	Non-DIM	2400-2600	2650-2800	4500-4750	4900-5100	7000-7300	7100-7400
$(lm) \pm 5\%$	1-001	DIM	2400-2600	-	-	4650-4850	-	7100-7400
CRI80 White finish	3-CCT	Non-DIM	2400-2600	-	-	4900-5100	-	7100-7400
vvilite ililisii	3-001	DIM	2400-2600	-	-	4650-4850	-	7100-7400
			Remark: If	lamp body with black	color, the lumen will d	ecrease around 13%	6	
CRI			>80					
Beam Angle (°)	)		200°					
UGR			-					
LED Driver			Driver built-in					
Dimming Option	on		Triac / DALI / 0-10V					
Sensor			Microwave sensor					
Emergency Kits	5		YES					
Electrical Class			Class I					
Ingress Protect	ion(IP R	Rating)			IP4	0		
Impact Resistar	nce(IK F	Rating)	-					
Product Finishi	ng		White RAL9016, Black RAL9005					
Optics Material		PC						
Housing Material		Aluminium						
Lifetime (hr)			50,000h					
Glow wire test (°C)				750	°C			
Operating Tem	p.(°C)				-20°C~	~45°C		
Storage Temp.(	(°C)				-20°C~	~65°C		
Installation					Surface mount/Per	idant/wall mount		



Code	Dimens	ion(mm)	Size(mm)	Product W	/eight (Kg)	Package v	veight (Kg)	Carton Size(cm)	Qty/	20GP	40HQ
Code	Α	В	3ize(iiiii)	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN	Carton Size(Cili)	CTN	(pcs)	(pcs)
DB181-600	72	600	Ø72*600	1.12	1.41	6.72	9.56	75*36*30.5	12	3780	8928
DB181-1200	72	1200	Ø72*1200	1.89	2.35	11.31	15.18	135*27.5*21	6	1980	4824
DB181-1800	72	1800	Ø72*1800	2.75	3.40	10.98	14.77	195*19*21	4	1320	3168
ACC-DB181-WT/BK-0200 ACC-DB181-WT/BK-DA/DO-0200	-	-	100*25*1500	0.27	0.28	6.48	7.2	40*26*27	24	-	-
ACC-DB181-WT/BK-0001	-	-	200*57.6*17.5	0.082	-	5.904	6.97	45*42*17.5	72	-	-

### Driver Datasheet (Non-dimmable)

Total load wattage		20W	40W	60W		
	Rated output current	500mA	1000mA	1500mA		
	Output Voltage range	DC28-42V				
Output	Line Regulation		±5%			
	Setup Rise Time		<0.5s @230V			
	Flickering Index		0.25% (NO RISK)			
	Rated Input Voltage		AC220-240V			
	Input Voltage		AC198-264V			
	Frequency		50/60HZ			
	Rated Input Current	0.12 A	0.21A	0.31A		
Input	Input Current	0.14A	0.23A	0.36A		
	Power Factor		0.9			
	THD	<20% @230V				
	Efficiency	86%	87%	87%		
	No load wattage	<0.5W @230V				
	Short circuit protection		PASS			
Protection	Over voltage protection		PASS			
	Over temperature protection		PASS			
	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S				
	Isolation Resistance		l/P-O/P: 500VDC, ≥4M Ω			
Safety & EMC	Surge	IEC/EN61000-4-5 (L-N:1KV, L/N-PE: 2KV)				
	EMC Emission		EN55015, EN61000-3-2			
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547	7		

## Driver Datasheet (Triac Dimmable)

		,		
То	tal load wattage	20W	40W	
	Rated output current	500mA	950mA	
	Output Voltage range	DC28-40V		
Output	Line Regulation	<u>+</u>	-5%	
	Setup, Rise Time	≤500n	ns@230V	
	Flickering Index	5%(LC	DW RISK)	
	Rated Input Voltage	AC22	10-240V	
	Input Voltage	AC19	98-264V	
	Frequency	5	0Hz	
	Rated Input Current	≤0.11A	≤0.21A	
Input	Input Current	≤0.12A	≤0.23A	
	Power Factor	(	0.9	
	THD	-	<20% @230V	
	Efficiency	≥81%	≥84%	
	No load wattage	<1W	@230V	
	Short circuit protection	P	ASS	
Protection	Over voltage protection	P	ASS	
	Over temperature protection	P	ASS	
	Withstand voltage	l/P-FG:1.5K\	/ac,<5mA 60S	
	Isolation Resistance	500VD	C, ≥2M Ω	
Safety & EMC	Surge	IEC/EN61000-4-5(	(L-N:1KV, L/N-PE: 2KV)	
	EMC Emission	EN55015,	EN61000-3-2	
	EMC Immunity	EN61000-4-2,3,4	,5,6,8,11; EN61547	

## Driver Datasheet (DALI Dimmable)

To	otal load wattage	20W	40W	60W		
	Rated output current	500mA	950mA	1500mA		
Output Voltage range  Output  Line Regulation		DC28-40V				
		±5%				
	Setup, Rise Time		<1s @230V			
	Flickering Index		<1%(NO RISK)			
	Rated Input Voltage		AC220-240V			
	Input Voltage		AC198-264V			
	Frequency		50/60HZ			
	Rated Input Current	≤0.10A	≤0.20A	≤0.30A		
Input	Input Current	≤0.11A	≤0.22A	≤0.34A		
	Power Factor	0.9				
	THD	<20% @230V				
	Efficiency	≥84% ≥86%				
	No load wattage	<0.5w @230V				
	Short circuit protection	PASS				
Protection	Over voltage protection		PASS			
	Over temperature protection		PASS			
	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S				
	Isolation Resistance	500VDC, ≥2M Ω				
Safety &EMC	Surge	IEC/EN61000-4-5 (L-N:1KV, L/N-PE: 2KV)				
	EMC Emission		EN55015, EN61000-3-2			
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547			

## Driver Datasheet (0-10V Dimmable)

То	tal load wattage	20W	40W	60W				
	Rated output current	500mA	950mA	1500mA				
	Output Voltage range	DC9-40V						
Output	Line Regulation	±5%						
	Setup, Rise Time		<0.5s @230V					
	Flickering Index		<1%(NO RISK)					
	Rated Input Voltage		AC220-240V					
Input Voltage			AC198-264V					
Frequency			50/60HZ					
	Rated Input Current	≤0.10A	≤0.20A	≤0.30A				
Input	Input Current	≤0.11A ≤0.22A ≤0.34A		≤0.34A				
	Power Factor	0.9						
	THD	<20% @230V						
	Efficiency	≥86%	≥8	8%				
	No load wattage		<0.5W @230V					
	Short circuit protection	PASS						
Protection	Over voltage protection	PASS						
	Over temperature protection	PASS						
	Withstand voltage	I/P-FG:1.5KVac, < 5mA 60S						
	Isolation Resistance	500VDC, ≥2M Ω						
Safety & EMC	Surge	IEC/EN61000-4-5 (L-N:1KV, L/N-PE: 2KV)						
	EMC Emission		EN55015, EN61000-3-2					
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547					

# Driver Datasheet(Non-dimmable for sensor)

To	otal load wattage	23W	38W	56W		
	Rated output current	150mA	250mA	390mA		
	Output Voltage range	DC120-150V	DC120-150V	DC100-150V		
Output	Line Regulation		±5%			
	Setup, Rise Time		<500ms @230V			
	Flickering Index		<3%(NO RISK)			
	Rated Input Voltage		AC220-240V			
	Input Voltage		AC198-240V			
	Frequency		50HZ/60Hz			
	Rated Input Current	≤0.13A	≤0.21A	≤0.31A		
Input	Input Current	≤0.15A	≤0.23A	≤0.34A		
	Power Factor		>0.9			
	THD	-	<20%	@230V		
	Efficiency		≥90%			
	No load wattage		<0.5W @230V			
	Short circuit protection		PASS			
Protection	Over voltage protection		PASS			
	Over temperature protection		PASS			
	Withstand voltage		-			
	Isolation Resistance		-			
Safety &EMC	Surge	II	EC/EN61000-4-5 (L-N:1KV, L/N-PE: 2K\	/)		
	EMC Emission	EN55015, EN61000-3-2				
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547			

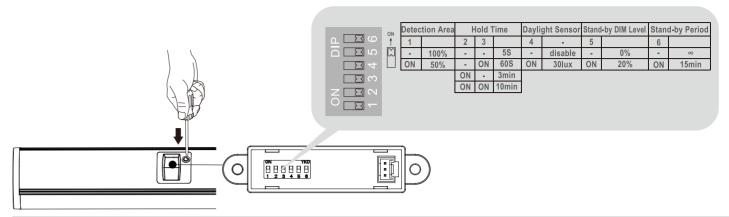
### Driver Datasheet (Emergency)

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	≤1\$
Emergency Operating Temp. (°C )	0°C-25°C

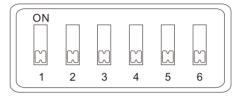
### **Driver Datasheet (Sensor)**

Operating Voltage	DC7-12V		
Microwave frequency	5.8GHz±75MHz, ISM wave band		
Detection angle	140°		
Detection Area	DIP switch 4-6M (50%/100%) Remote 4-6m (25%/50%/75%/100%)adjustable		
Hold time	DIP switch 5S/60S/3min/10min Remote 5S/1min/5min/10min/adjustable		
Daylight threshold	DIP switch 30lux/disable Remote 15lux <b>↓</b> /50lux ☆ /disable/adjustable		
Stand-by DIM Level	DIP switch 0% / 20% Remote 10%/30%/adjustable		
Stand-by Period	DIP switch 15min/8 Remote OS/1min/10min/+/adjustable		
Dimming Range	Pressing this button continuously, the brightness will increase or reduce 5% for each adjustment ON mode is still available. Dimming range: 30%-100%		
Microwave ON/OFF function	Pressing this button, the sensor function will be turned off, the lamp will remain ON/OFF and keep same brightness as last setting. The sensor mode can be restored and workable by pressing the 'Detection Area' button. (Other parameters stay the latest setting)		
Installation Height	Recommended Installation Height: Wall mounted height 1.8m. Ceiling mounted height 3m.		
Minimum mounting distance	recommended install height should be more than 3m		
Operating temperature(°C)	-20°C~60°C		

#### **Sensor Setting**



#### **Factory setting**



		Factory sett	ings	
Detection Area	Hold Time	Daylight Sensor	Stand-by DIM Level	Stand-by Period
100%	5S	Disable	0%	∞

#### **Sensor Setting**

#### **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.

Detection Area			
1			
-	100%		
ON 50%			

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, concrete wall (<30cm thickness) etc. Recommend to keep 100% sensor distance 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.

Hold Time				
2 3				
-	5S			
-	ON	60S		
ON	-	3min		
ON	ON	10min		

#### Hold time:

Refers to the time period the lamp remains at 100% illumination after no motion detected.

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:

Daylight Sensor				
4 -				
- disable				
ON 30lux				

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

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

Stand-by DIM Level				
5				
-	0%			
ON	20%			

#### Stand-by dimming level:

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

Stand-by Period				
6				
- ∞				
ON	15min			

#### Stand-by period:

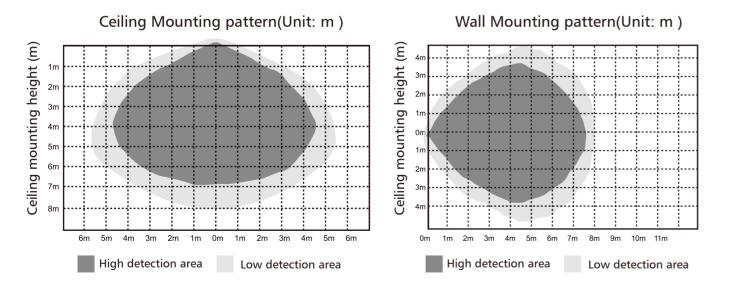
This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

### Sensor Setting

	Button	Function	Description
	ON/OFF	Normal ON/OFF	Pressing ON/OFF button, the sensor function will be turned off, the lamp will remain ON/OFF and keep same brightness as last setting. The sensor mode can be restored and workable by pressing the 'Detection Area' button.(Other parameters stay the latest setting)
ON/OFF o Stand-by Dim Level Oim+ Dim- 10% 30%	<del>-</del> ¥-	Night light function	Short press $x$ , the lamp will keep 10% brightness as a night lamp. Long press 3 seconds to reset sensor mode, the lamp will recover to 100% brightness, all parameters will keep same as DIP setting. In night lamp mode, press Dim+/Dim- can restore to last setting status and do relevant dim+/dim- adjustment. The sensor mode can be restored and workable by pressing the 'Detection Area' button. (Other parameters stay the latest setting)
Hold Time	Dim+	Increasing Brightness	Pressing this button continuously, the brightness will increase 5% for each adjustment. ON mode is still available. Dimming range: 30%-100%
5s 1min 5min 10min Detection Area	Dim-	Reducing Brightness	Pressing this button continuously, the brightness will reduce 5% for each adjustment. ON mode is still available. Dimming range: 30%-100%
Stand-by Period	Stand-by Dim Level	Low Brightness	10% , 30%
0s 1min 10min +∞	Hold Time	100% Brightness	5s,1min,5min,10min
Daylight Threshold  Test Disable	Detection Area	Detection Area	100% <> ,75% <> ,50% <-> ,25% <<>
	Stand-by Period	Stand-by Time	0s,1min,10min,+∞
	Test	TEST Button	Pressing this button, the light will turn off after 2 seconds. Restore to last sensing setting after power off.
	Daylight Threshold	Threshold	15Lux <b>人</b> ,50Lux 滨 ,Disable

- 1. The infrared remote control is a point-to-point controller, which can be operated one-to-one or one-to-many without code pairing. The lamp will light up and flash once when it receives a signal.
- 2. Separate control on each luminaire requires an installation distance of 3 meter between two adjacent lamps.
- 3. If lose control, please operate with a closer distance, recommend remote control distance is 3 to 5 meters.

#### **Induction Range**

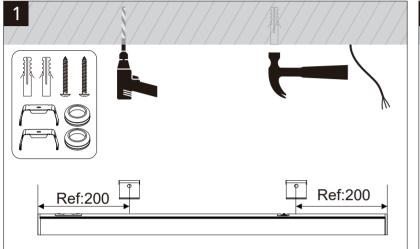


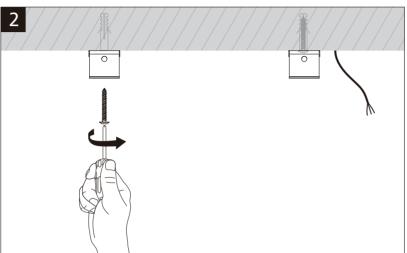
### **Installation Procedure**

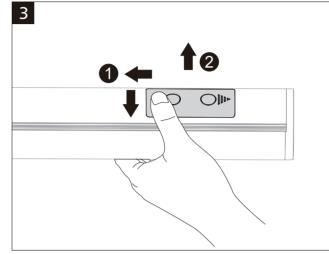
# WARNING /

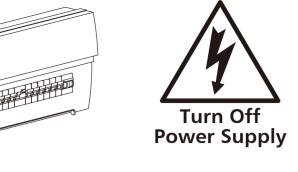
- 1.Switch off before installation.
- 2.Switch on only after complete installation and examination of the circuit.
- 3. Professional electrician for installation and maintenance only.

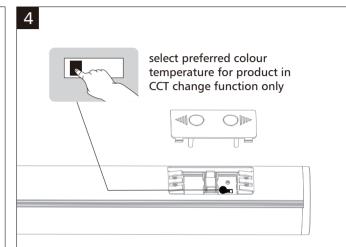
### **Surface mount installation**

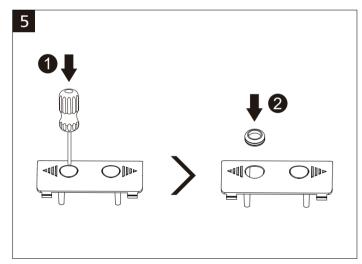


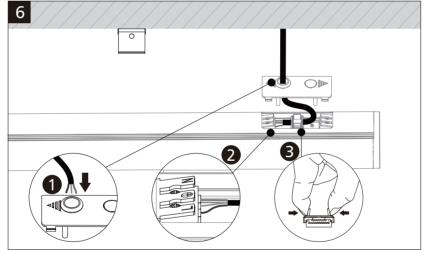


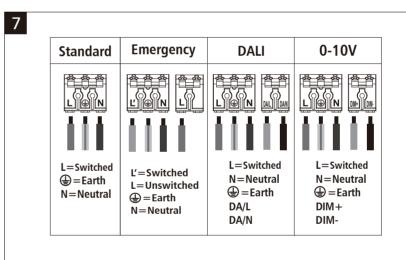


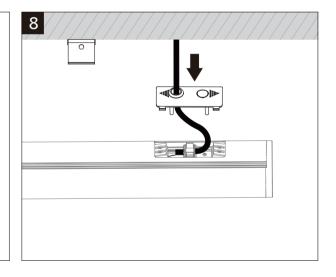


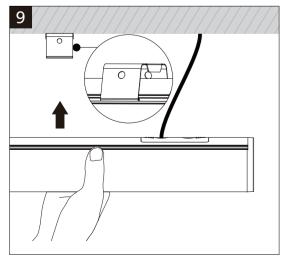








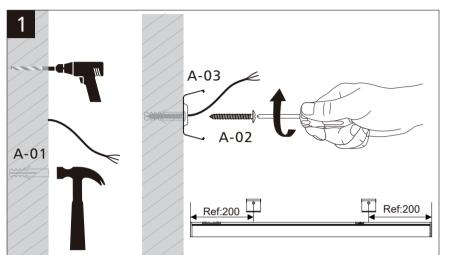


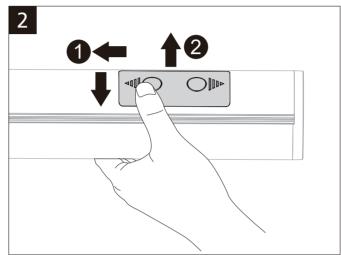


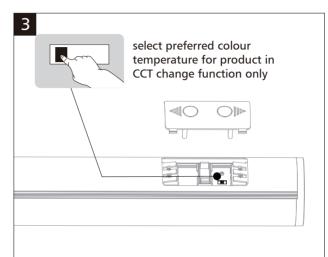


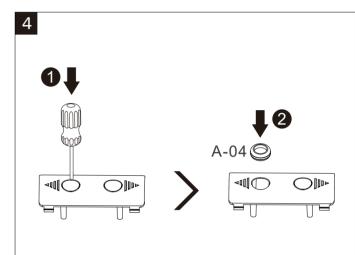
### **Wall mount installation**

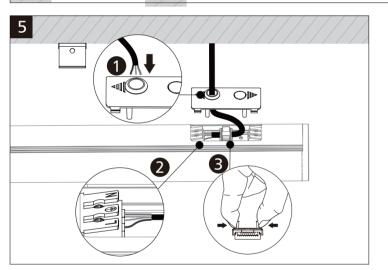
С	ode	A-01	A-02	A-03	A-04	A-05	A-06
Д	ACC	x2	x2	x2	x2	x2	x2

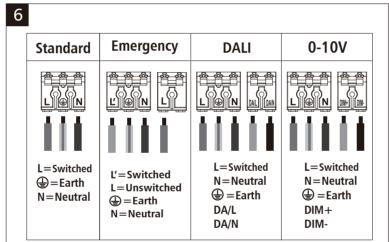


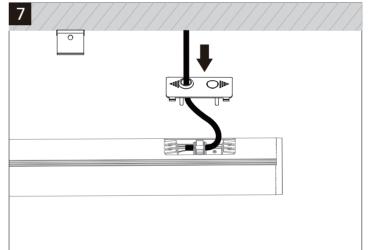


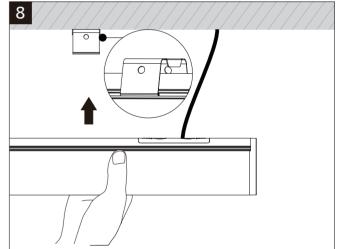


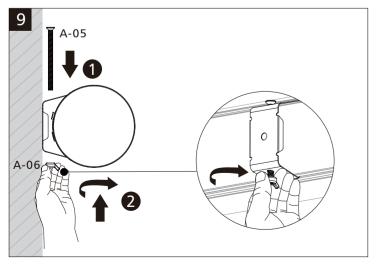


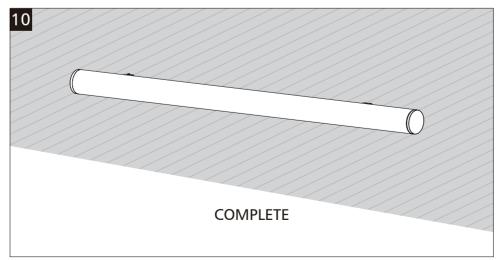






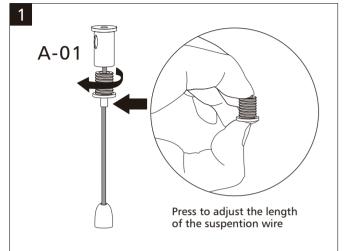


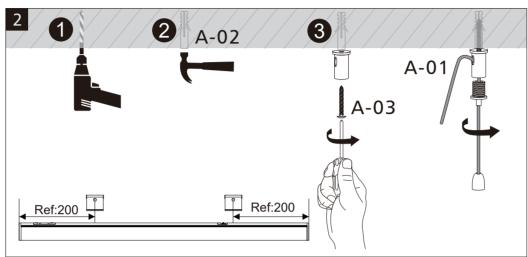


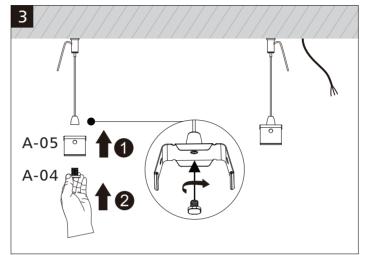


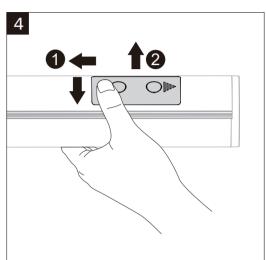
## Pendant installation(Without round ceiling plate)

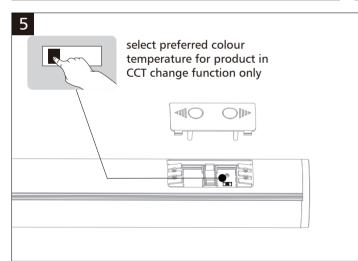
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ACC	x2	x2	x2	x2	x2	x2

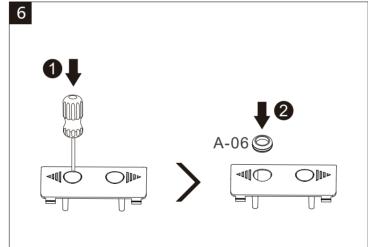


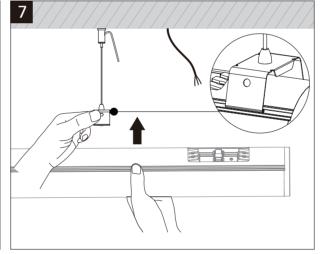


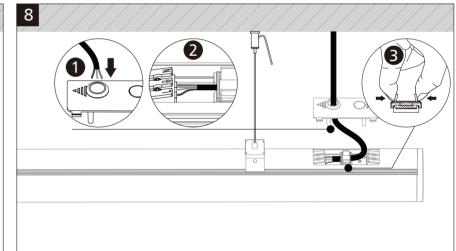


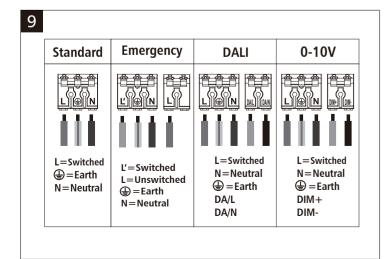


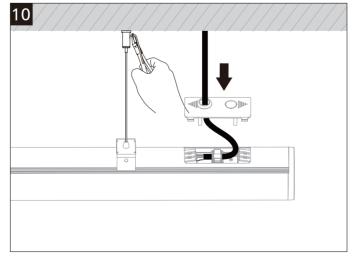


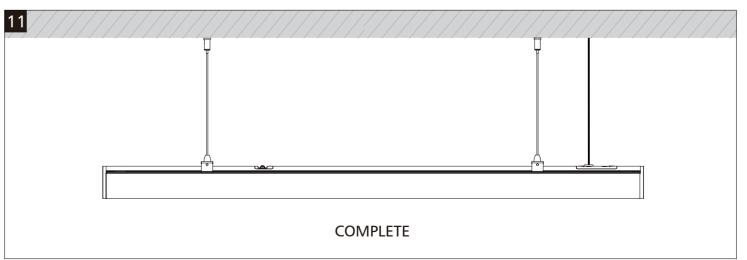






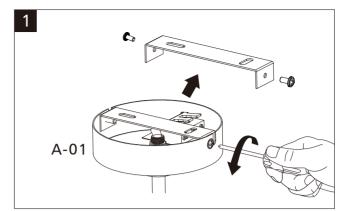


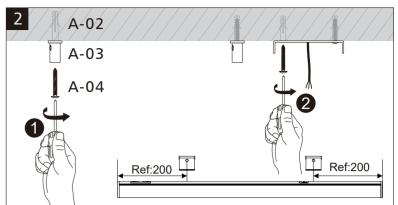


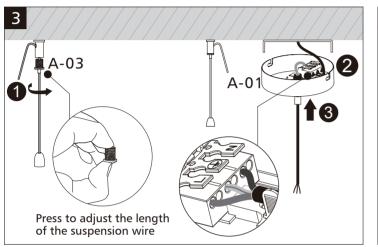


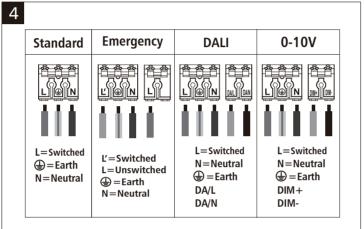
## Pendant installation(With round ceiling plate)

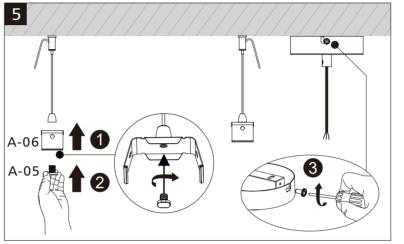
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ACC	x1	x4	x2	x4	x2	x2	x2

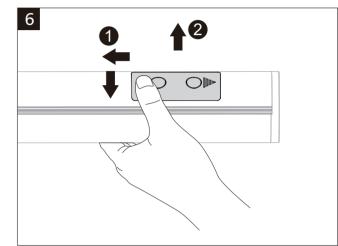


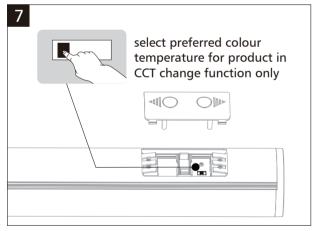


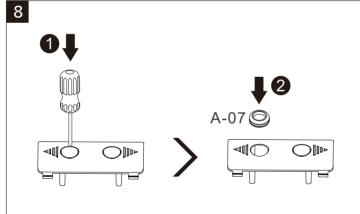


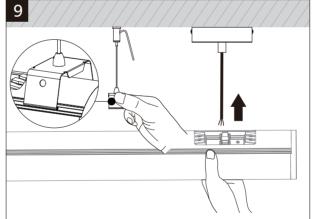


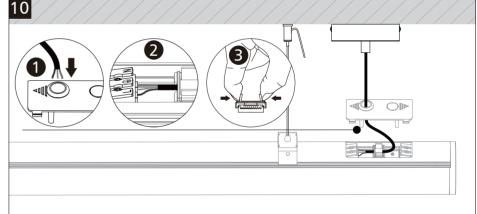


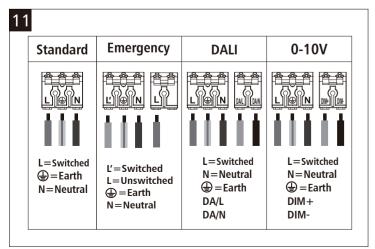


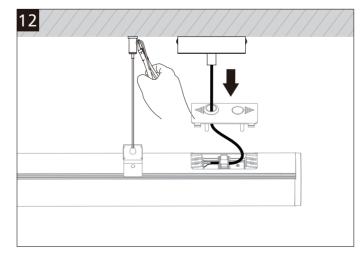


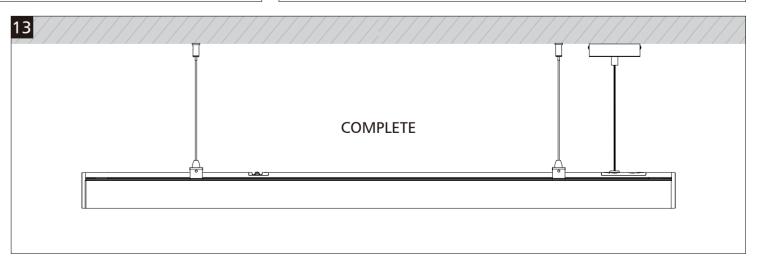




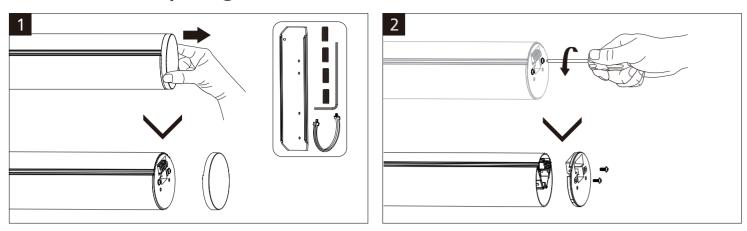


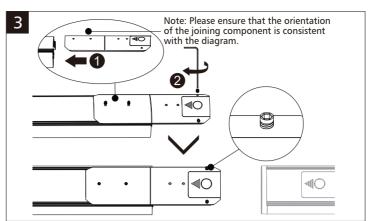


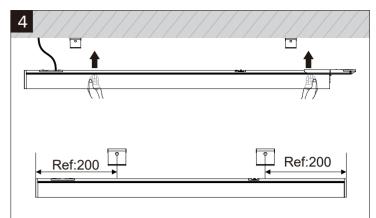


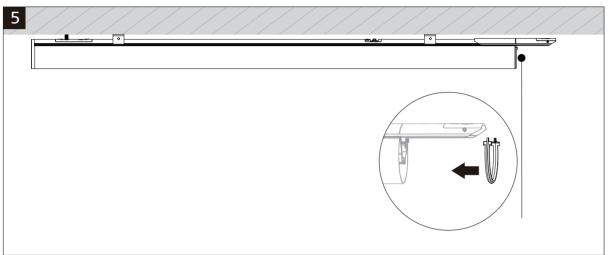


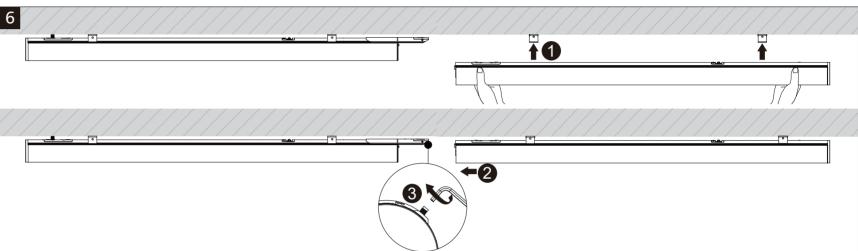
### **Surface mount splicing installation**

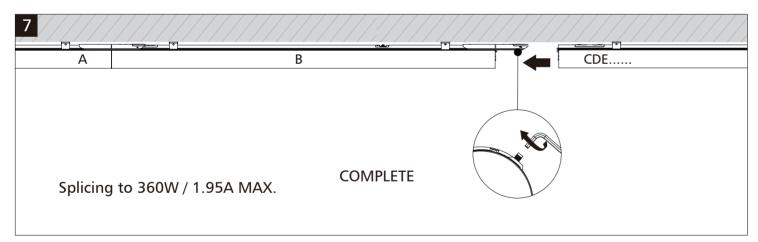




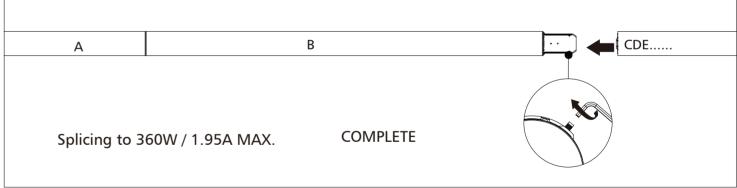




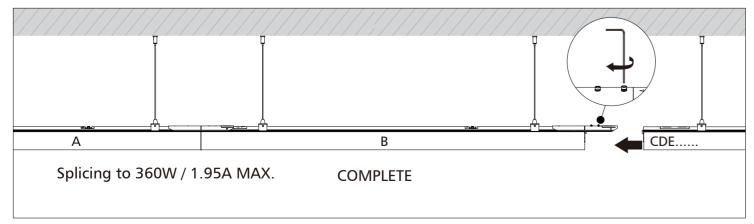




# Wall mount splicing installation



### Pendant splicing installation(Without round ceiling plate)



## Pendant splicing installation(With round ceiling plate)

