

Introduction

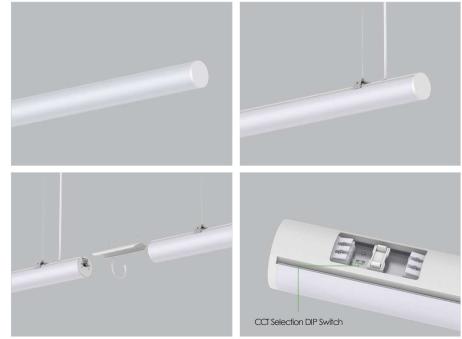
This is a cylinder shape batten light with 200 degree lighting surface. It mainly adopts PC lampshade for big lighting surface for uniform light output. 600mm/1200mm/1800mm standard size optional, it also supports to cut different sizes. What's more, to meet more application areas, it can do microwave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

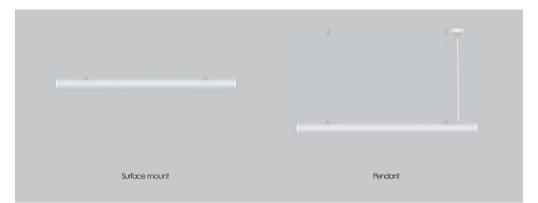
Features

- 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

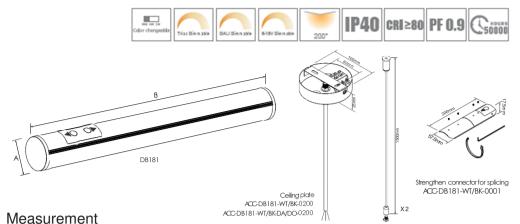
It is widely used in office, meeting room, museum, workshop, supermarket, warehouse etc.





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(m	וm)		Ø72*L600	Ø72*L600	Ø72*L1200	Ø72*L1200	Ø72*L1800	Ø72*L1800
Cutout (mm)				-			
Watt(W)			20W	23W	38W	40W	56W	60W
Rated Input	Voltag	ge			AC220	-240V		
Input Voltag	е				AC198	-264V		
LED Module	Input				-			
Light Source					SM	D		
SDCM					<6	5		
CCT(K)				1-CCT: 3000	K/4000K/5000K/5700H	K 3-CCT: 3000k	C + 4000K + 5700K	
CCT Selectio	n DIP	Switch			NC	C		
	1-	Non- DIM	2400-2600	2650-2800	4500-4750	4900-5100	7000-7300	7100-7400
Luminous Flux (Im)	CCT	DIM	2400-2600	-	-	4650-4850	-	7100-7400
±5% CRI80 White finish	3-	Non- DIM	2400-2600	-	-	4900-5100	-	7100-7400
	CCT	DIM	2400-2600	-	-	4650-4850	-	7100-7400
			Remark:	If lamp body with I	plack color, the lume	en will decrease o	around 13%	
CRI					>8	0		
Beam Angle	(°)				200)°		
UGR					-			
LED Driver					Driver b	ouilt-in		
Dimming Op	tion				Triac / DAL	_I / 0-10V		
Sensor					Microwav	e sensor		
Emergency I	Kits				YE	S		
Electrical Clo	ass				Clas	ss I		
Ingress Prote					IP4	0		
Impact Resis Rating)	tance	(IK			-			
Product Finis	hing				White RAL9016,	Black RAL9005		
Optics Mate	rial				PC	2		
Housing Mat	erial				Alumii	nium		
Lifetime (hr)					50,00	00h		
Glow wire te	st (°C)				750	°C		
Operating Te	emp.(°	C)			-20°C~	~45°C		
Storage Tem	p.(°C)				-20°C~	~65°C		
Installation					Surface mount/Per	ndant/wall mount	t	



Measurement

Code	Dimens	ion(mm)	Size(mm)	Product W	/eight (Kg)	Package	weight (Kg)	Carton Size(cm)	Qty/	20GP	40HQ
Code	Α	В		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		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-0200ACC- 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	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					
	Frequency		50/60HZ			
	Rated Input Current	0.12 A	0.21A	0.31A		
	Input Current	0.14A	0.23A	0.36A		
Input	Power Factor		0.9			
	THD					
	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					
Safety &	Surge	IEC/EN61000-4-5 (L-N:1KV, L/N-PE: 2KV)				
EMC	EMC Emission		EN55015, EN61000-3-2			
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547			

Driver Datasheet (Triac Dimmable)

Tot	al load wattage	20W	40W			
	Rated output current	500mA	950mA			
Rated output current 500mA 950mA Output Output Voltage range DC28-40V Output Line Regulation ±5% Setup, Rise Time ≤500ms@230V Flickering Index S%[LOW RISK] Rated Input Voltage AC220-240V Input Rated Input Voltage Rated Input Voltage AC198-264V Frequency S0-11A Input frequency Rated Input Current S0.11A Input Current S0.12A Power Factor 0.9 THD<-	28-40V					
Output	Line Regulation	:	±5%			
	Setup, Rise Time	≤500r	ns@230V			
	Flickering Index	5%(LC	DW RISK)			
	Rated Input Voltage	AC2	20-240V			
	Input Voltage	AC1	98-264V			
	Frequency	5	50Hz			
	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	F	PASS			
Protection		F	PASS			
		F	PASS			
	Withstand voltage	I/P-FG:1.5K	Vac,<5mA 60S			
	Isolation Resistance	500VD	DC, ≥2M Ω			
Safety & EMC	Surge	IEC/EN61000-4-5	(L-N:1KV, L/N-PE: 2KV)			
Input Protection Safety & EMC	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		DC28-40V	
Output	Line Regulation		±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%	≥8	6%
	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	IE	EC/EN61000-4-5 (L-N:1KV, L/N-PE: 2	?KV)
	EMC Emission		EN55015, EN61000-3-2	
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547	

Driver Datasheet (0-10V Dimmable)

	otal load wattage	20W	40W	60W
	Rated output current	500mA	950mA	1500mA
	Output Voltage range		DC9-40V	
Dutput	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
nput	Input Current	≤0.11A	≤0.22A	≤0.34A
	Power Factor		0.9	
	THD		<20% @230V	
	Efficiency	≥86%	≥8	8%
	No load wattage		<0.5W @230V	
	Short circuit protection		PASS	
rotection	Over voltage protection		PASS	
	Over temperature protection		PASS	
	Withstand voltage		I/P-FG:1.5KVac,<5mA 60S	
	Isolation Resistance		500VDC, ≥2M Ω	
afety & MC	Surge	II	EC/EN61000-4-5 (L-N:1KV, L/N-PE:2	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: 2	2KV)
	EMC Emission		EN55015, EN61000-3-2	
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547	

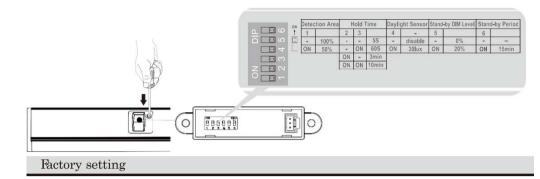
Driver Datasheet (Emergency)

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 55/605/3min/10min Remote 55/1min/3min/10min/adjustable
Daylight threshold	DIP switch 30lux/disable Remote 15lux 450lux 44disable/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 sett	tings	
m	m	m	m	C	a		Detection Area	Hold Time	Daylight Sensor	Stand-by DIM Level	Stand-by Period
1	2	3	4	5	6	ļ	100%	55	Disable	0%	8

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.



Hold Time

2

-

ON

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.

3 Hold time: 5SON 60S

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.

3min The hold time counting should be started after the sensor is powered on and initialized. ON ON 10min

Daylight sensor:

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 dimming level:



Daylight Sensor

ON 30lux

disable

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 00 - 00 00 15min

Stand-by period:

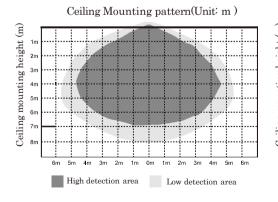
This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

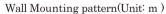
Sensor	etting		
	Button	Function	Description
	ON/OFF	Normal ON/OFF	Pressing ON/OFF button, the sensor function will be turned off, the lamp will remain ON/OFF and keep same brightness as last setting. The sensor mode can be restored and workable by pressing the 'Detection Area' button.(Other paramerers stay the latest setting)
ON/OFF • Stand-by Shand-by Jam Level Dime Dime 10% 30%	÷.	Night light function	Short press 🔆 , 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 paramerers stay the latest setting)
Hold Time	Dim+	ncreasing 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 Dim Level	Low Brightness	10% , 30%
Stand-by Period s 1min 10min +00	Hold Time	100% Brightness	5s,1min,5min,10min
Daylight Threshold	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 🌜 ,50Lux 🙇 ,Disable

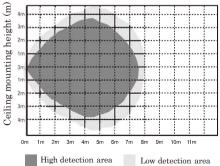
1. The infrared remote control is a point-to-point controller, which can be operated one-to-one or one-to-many without code pairing. The lamp will light up and flash once when it receives a signal.

Separate control on each luminaire requires an installation distance of 3 meter between two adjacent lamps.
If lose control, please operate with a closer distance, recommend remote control distance is 3 to 5 meters.

Induction Range





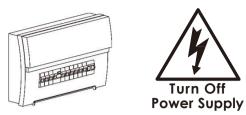


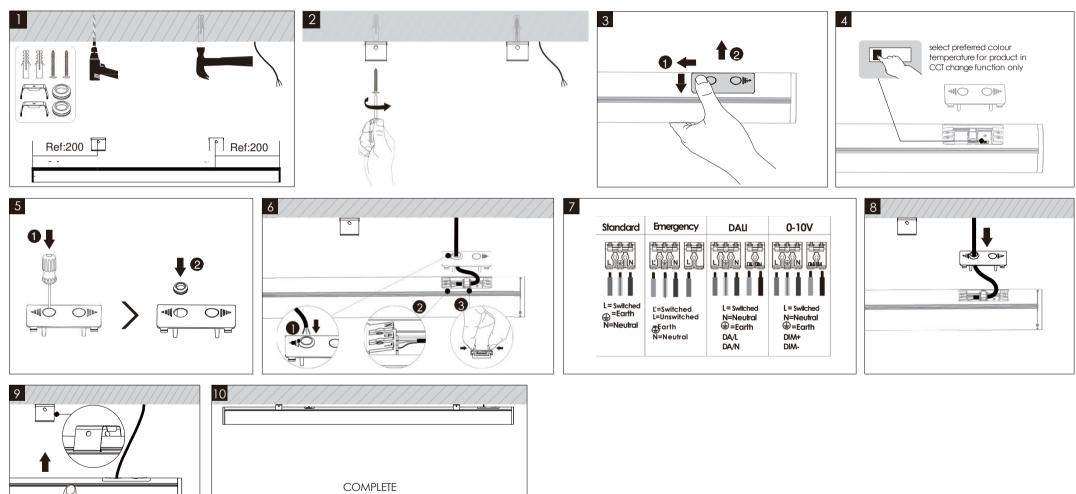
Installation Procedure

WARNING

Switch off before installation.
Switch on only after complete installation and examination of the arcuit.
Professional electrician for installation and maintenance only.

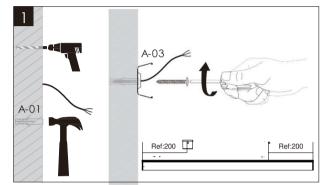
Surface mount installation

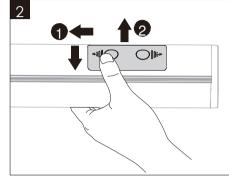


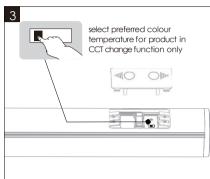


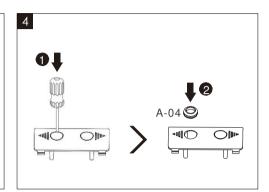
Wall mount installation

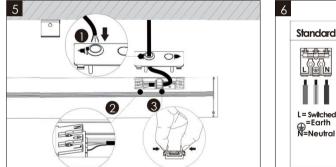
Code	A-01	A-02	A-03	A-04	(A-05	A-06 🥗
ACC	x2	x2	x2	x2	x2	x2

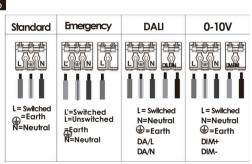


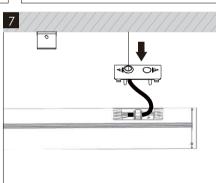


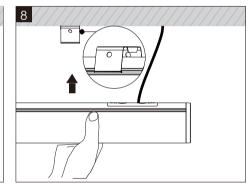


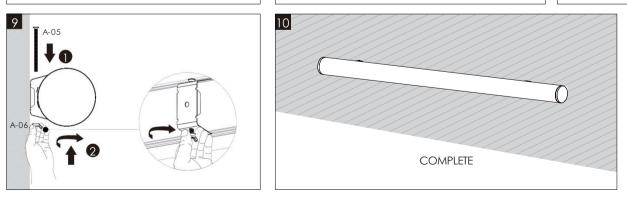






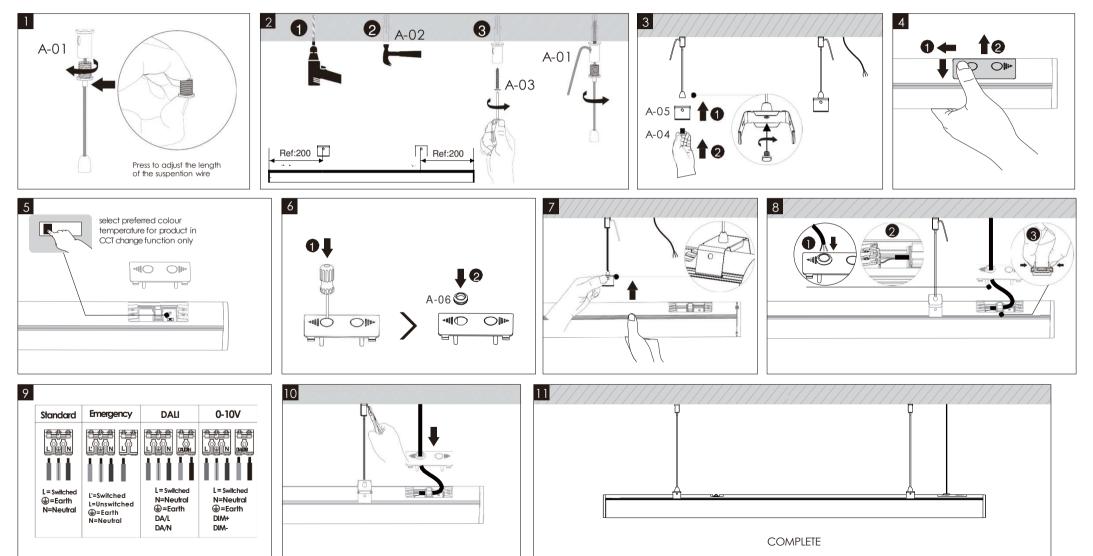




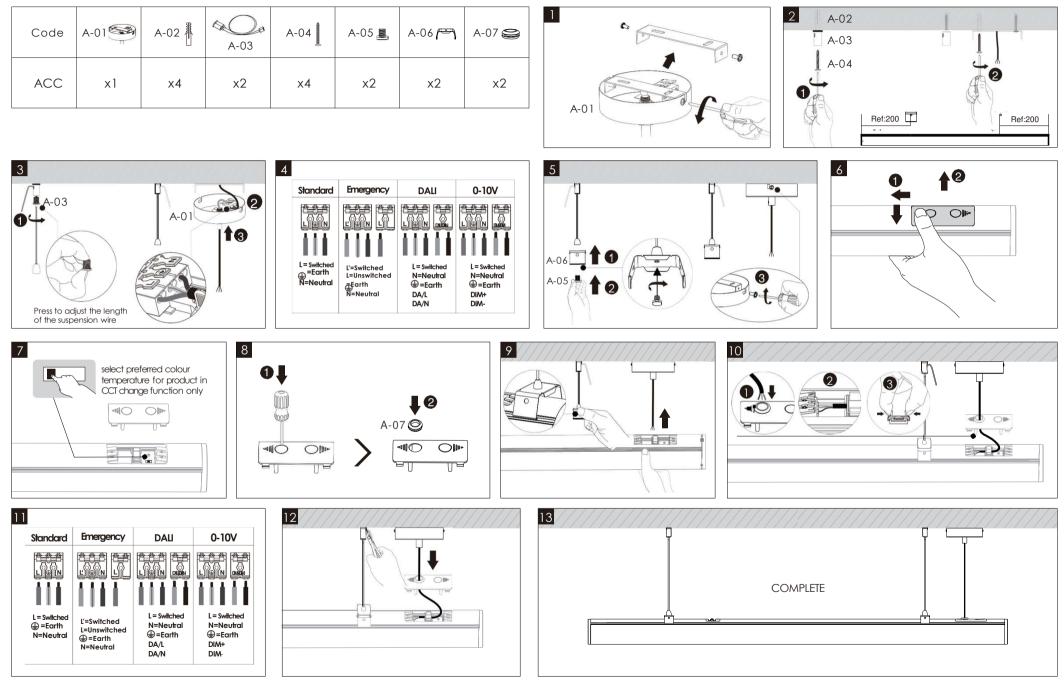


Pendant installation (Without round ceiling plate)

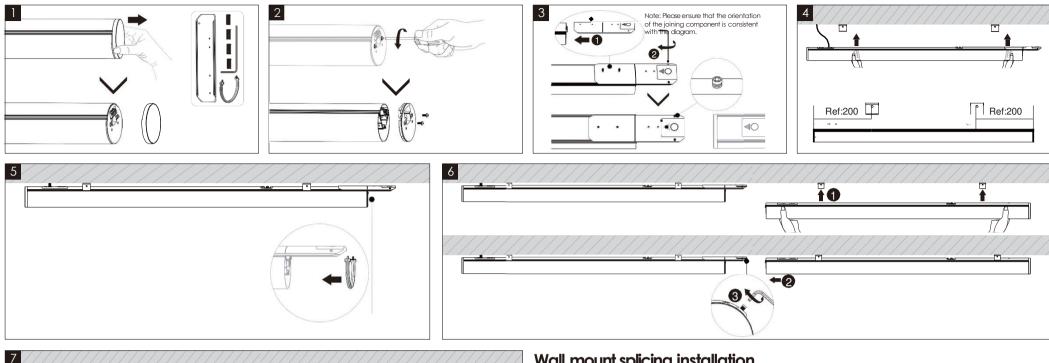
Code	5-020	A-02	A-03	A-04 📕	A-05	A-06 😂
ACC	x2	x2	x2	x2	x2	x2

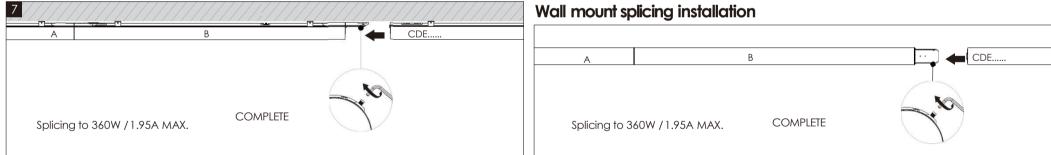


Pendant installation (With round ceiling plate)

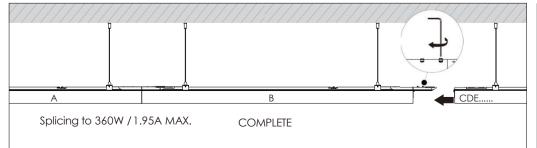


Surface mount splicing installation

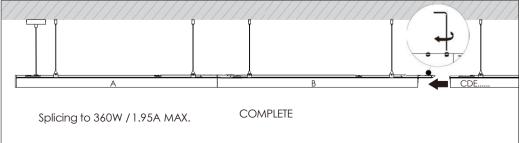




Pendant splicing installation(Without round ceiling plate)



Pendant splicing installation(With round ceiling plate)







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