

Entry /ECO Standard /STD Professional/PRO ODM & OEM Intelligent/INT



Tri-proof LED Light
TRP12-G2.0 Series



Introduction

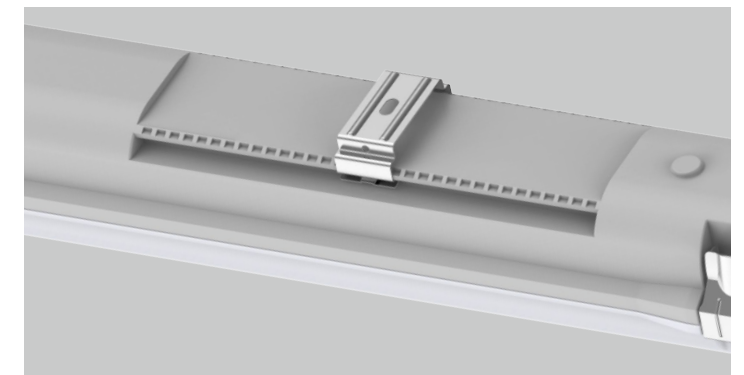
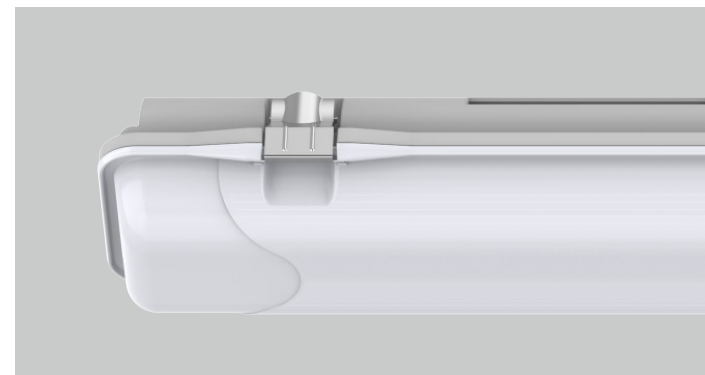
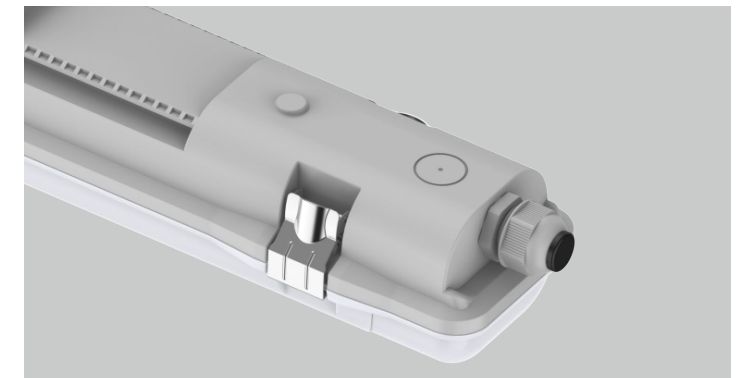
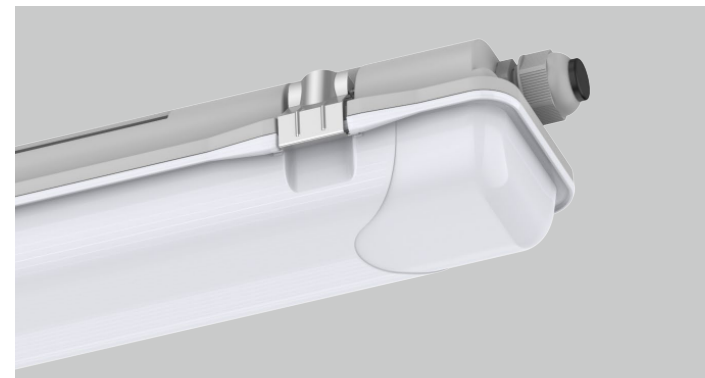
This tri-proof light is an ideal alternative to fluorescent lamps and it also a sustainable design with multiple plug in modules. It adopts high lumen SMD LED chip, high transmittance lamp shade and 120 degree wide beam angle provide an uniform light output. It is a splicing design with waterproof connector. Four sizes option: 600mm/1200mm/1500mm/1800mm. Surface mount and pendant installation available. For modular design, the led part and driver can be easily replaced, installer can also install microwave sensor module and emergency pack easily based on plug in design.

Features

- Plug in design for microwave sensor module, emergency kit module.
- Clip-type design for LED part and driver part, tool free.
- Stainless steel side clips, lock-in-place design for convenient installation.
- High lumen efficiency, 120lm/W.
- IP65 IK08 protection level.
- Interchangeable CCT(3000K+4000K+5700K) with DIP switch.
- Surface mounted bracket can be moved 200mm, convenient for installation adjustment.
- Installation ways: Surface mount / Pendant.
- Internal flicker free driver.

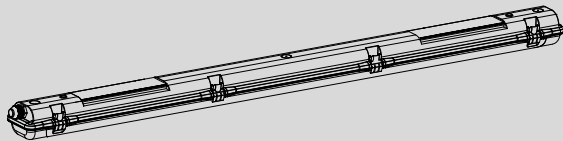
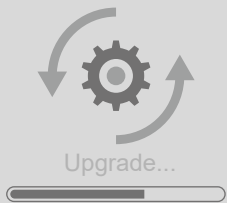
Application Areas

It's widely used in factory, warehouse, workshop, ship, parking lot and other lighting area with high humidity and dusty places.

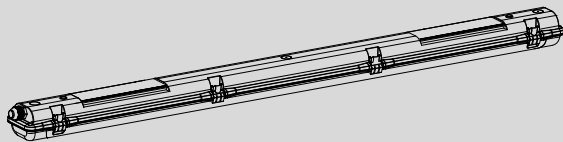
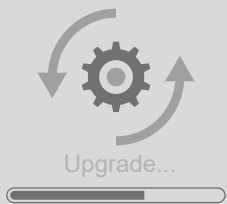




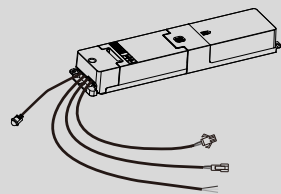
Standard



Emergency

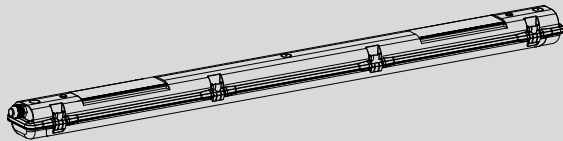


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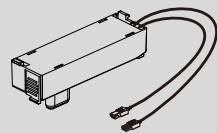


ACC-TRP12-E

Sensor

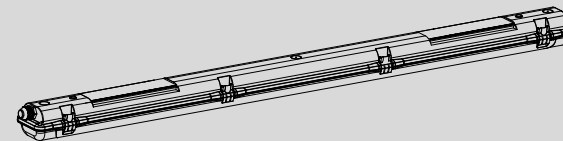
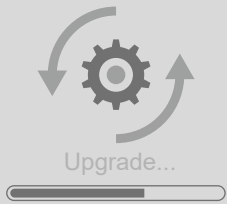


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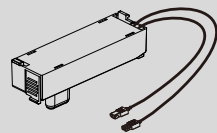


ACC-TRP12-S

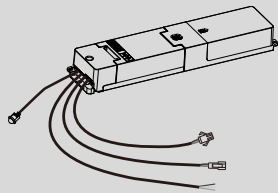
Sensor + Emergency



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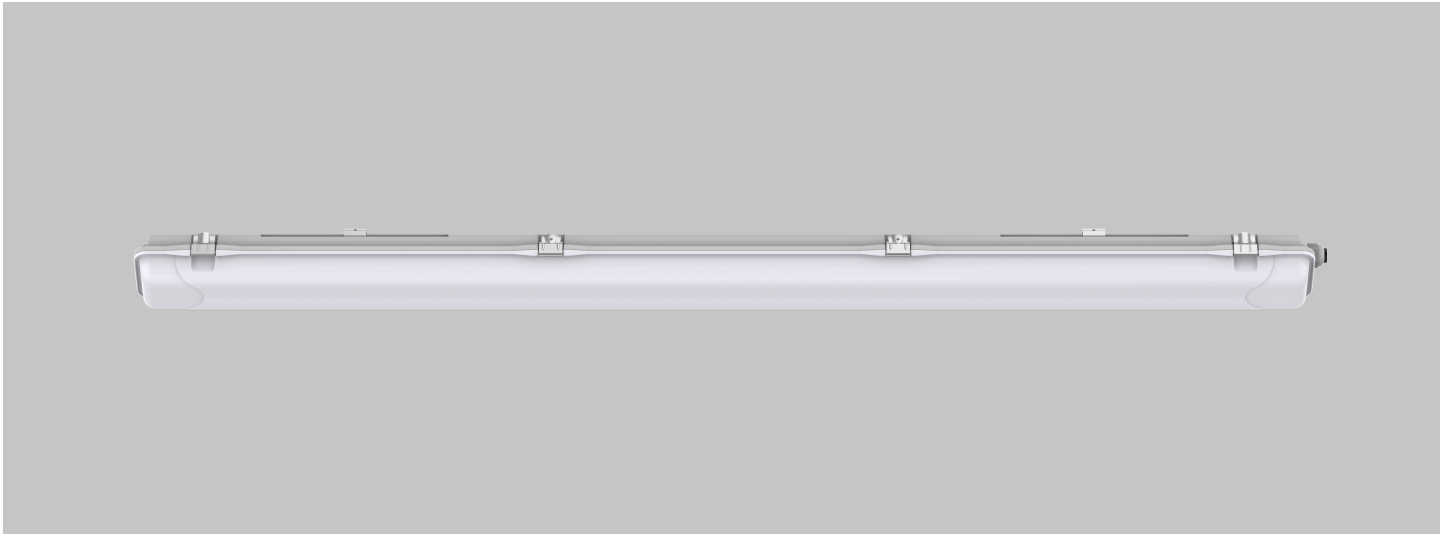


ACC-TRP12-S

ACC-TRP12-E

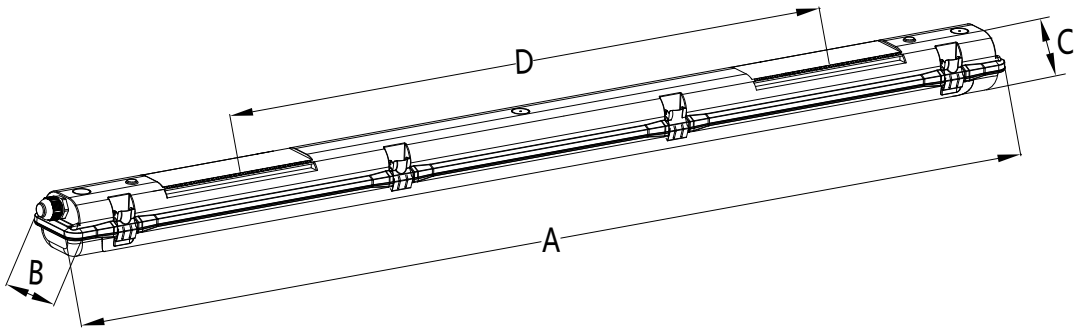
Function Table

Function Table	Non-dim Wattage Switchable	Non-dim Wattage Switchable + CCT Switchable	Non-dim Wattage Switchable + Emergency	Non-dim Wattage Switchable + Emergency + CCT Switchable	Non-dim Wattage Switchable + Sensor	Non-dim Wattage Switchable + Sensor + CCT Switchable	Non-dim Wattage Switchable + Sensor + Emergency	Non-dim Wattage Switchable + Sensor + Emergency + CC Switchable	0-10V dim+ Wattage Switchable	0-10V+Wattage Switchable+ CCT Switchable	0-10V+Wattage Switchable+ CCT Switchable + Emergency	DALI Dim	DALI + CCT Switchable	DALI + CCT Switchable + Emergency
TRP12-600-20W-A4	√	√	-	-	-	-	-	-	√	√	-	√	√	-
TRP12-1200-40W-A4	√	√	√	√	√	√	√	√	√	√	-	√	√	-
TRP12-1500-60W-A4	√	√	√	√	√	√	√	√	√	√	-	√	√	-
TRP12-1800-72W-A4	√	√	√	√	√	√	√	√	√	√	-	√	√	-



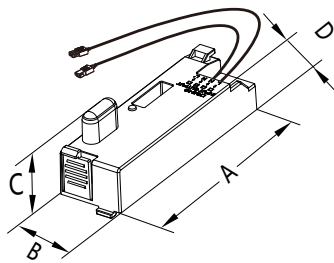
Technical Data Sheet

Code No.			TRP12-600-20W-A4	TRP12-1200-40W-A4	TRP12-1500-60W-A4	TRP12-1800-72W-A4
Dimension(mm)			650*89*70	1260*89*70	1560*89*70	1824*89*70
Cutout (mm)			-			
Watt(W)			20W@max (optional:18W / 15W / 12W)	40W@max (optional:35W / 30W / 25W)	60W@max (optional:55W / 45W / 35W)	72W@max (optional:60W / 50W / 40W)
Rated Input Voltage(V)			AC220-240V			
Input Voltage(V)			AC198-264V			
LED Module Input			-			
Light Source			SMD2835			
SDCM			< 6			
CCT(K)			1-CCT: 3000K/4000K/5000K/5700K 3-CCT: 3000K + 4000K + 5700K			
CCT Selection DIP Switch			Yes			
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	20W@2320-2450 18W@2140-2260 15W@1780-1900 12W@1440-1530	40W@4720-4900 35W@4020-4400 30W@3570-3900 25W@3020-3400	60W@7200-7380 55W@6600-7150 45W@5600-6070 35W@4480-4860	72W@8600-9000 60W@7500-7800 50W@6250-6500 40W@5000-5200
	DIM		-			
	Non-DIM	3-CCT	20W@2300-2420 18W@1980-2260 15W@1680-1890 12W@1350-1500	40W@4620-5120 35W@4060-4620 30W@3540-3960 25W@3050-3500	60W@7300-7500 55W@6650-7350 45W@5580-6390 35W@4440-5040	72W@8800-9300 60W@7600-7900 50W@6350-6600 40W@5100-5400
	DIM		-			
CRI			≥80			
Beam Angle (°)			120°			
UGR			-			
LED Driver			Driver built-in			
Dimming Option			DALI/0-10V			
Sensor			-	Microwave sensor		
Emergency Kits			NO	YES		
Electrical Class			Class I			
Ingress Protection (IP Rating)			IP65			
Impact Resistance (IK Rating)			IK08			
Product Finishing(Base)			Grey			
Materials of Optics			PC			
Materials of Housing			PC			
Lifetime (hr)			50,000h			
Glow wire test (°C)			750 °C			
Operating Temp. (°C)			-20 °C ~45 °C			
Storage Temp. (°C)			-20 °C ~65 °C			
Installation			Surface mount / Pendant			

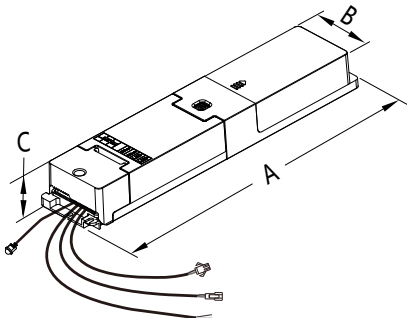


Measurement

Model	Dimension(mm)				Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/CTN	20GP (pcs)	40HQ (pcs)
	A	B	C	D		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
TRP12-600	650	89	70	305	650*89*70	0.8	0.91	9.6	11.7	71*31.5*32.5	12	4704	11016
TRP12-1200	1260	89	70	790	1260*89*70	1.4	1.68	12.6	16.3	132*31.5*24.5	9	2349	5400
TRP12-1500	1560	89	70	1070	1560*89*70	1.7	1.93	15.3	18.7	162*31.5*24.5	9	1944	4500
TRP12-1800	1824	89	70	1345	1824*89*70	2.0	2.26	18	21.9	188*31.5*24.5	9	1701	3870



ACC-TRP12-S



ACC-TRP12-E

Code	Dimension(mm)				Size(mm)	Package weight (Kg)		Inner Box Sizw(cm)	Qty/Inner Box	Qty/CTN	Carton Size(cm)
	A	B	C	D		N.W/PC	G.W/CTN				
ACC-TRP12-1200-S ACC-TRP12-1500-S ACC-TRP12-1800-S	98	30	33	20	98*30*33*20	0.076	5.7	9*4*27.5	1	50	47*29*42.5
ACC-TRP12-1200-E ACC-TRP12-1500-E ACC-TRP12-1800-E	203.5	42	25	-	203.5*42*25	0.26	14.9	9*4*27.5	1	50	47*29*42.5

Driver Datasheet (Non-Dimmable)

Total load wattage		20W/18W/15W/12W	40W/35W/30W/25W	60W/55W/45W/35W	72W/60W/50W/40W
Output	Rated output current	350mA/300mA/250mA/200mA			
	Output Voltage range	DC25-57V/DC25-75V	DC40-115V/DC40-130V/DC45-130V	DC80-172V/DC80-200V	DC54-230V
	Line Regulation	±5%			
	Setup, Rise Time	0.5S @230V			
	Flickering Index	<0.5%			
Input	Rated Input Voltage(V)	AC220-240V			
	Input Voltage	AC198-264V			
	Frequency	50/60Hz			
	Rated Input Current	<0.1A	<0.2A	<0.3A	<0.36A
	Input Current	<0.11A	<0.22A	<0.32A	<0.38A
	Power Factor	0.9			
	THD	≤20%			
	Efficiency	≥87%	≥91%	≥92.5%	≥94%
	No load wattage	<0.5W			
Protection	Short circuit protection	PASS			
	Over voltage protection	PASS			
	Over temperature protection	PASS			
Safety &EMC	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S			
	Isolation Resistance	500VDC, ≥2M Ω			
	Surge	IEC/EN61000-4-5(P<25W; L-N:500V, L/N-PE:1KV) / IEC/EN61000-4-5 (P≥25w 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 Dim)

Total load wattage		20W/18W/15W/12W	40W/35W/30W/25W	60W/55W/45W/35W
Output	Rated output current	350mA/300mA/250mA/200mA		
	Output Voltage range	39-63/73/88/110VDC	54-120/140VDC	100-172/200VDC
	Line Regulation	±5%		
	Setup, Rise Time	<0.5S		
	Flickering Index	<0.5%		
	IEC-PST	≤1		
	CIE(SVM)	≤0.4		
Input	Rated Input Voltage(V)	AC200-240V		
	Input Voltage	AC180-264V		
	Frequency	0/50/60Hz		
	Rated Input Current	<0.1A	<0.21A	<0.31A
	Input Current	<0.17A	<0.23A	<0.34A
	Power Factor	0.96		0.97
	THD	11.50%	10%	9%
	Efficiency	88%	91.5%	93%
	Inrush current	10.32A&286us	16.5A&262us	19A&304us
	No load wattage	<0.5W		
	Stand-by power consumption	-		
Protection	Short circuit protection	Pass		
	Over voltage protection	Pass		
	Over temperature protection	Pass		
Safety &EMC	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S		
	Isolation Resistance	500VDC, ≥2M Ω		
	Surge	L-N:1KV, L-FG/N-FG:2KV		
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547		

Driver Datasheet (DALI Dim)

Total load wattage		20W	40W	60W	72W
Output	Rated output current	350mA			
	Output Voltage range	54-240Vdc		54-240Vdc	54-240Vdc
	Line Regulation	±5%			
	Setup, Rise Time	<0.5S			
	Flickering Index	<0.5%			
	IEC-PST	≤1			
	CIE(SVM)	≤0.4			
Input	Rated Input Voltage(V)	AC220-240V			
	Input Voltage	AC198-264V			
	Frequency	0/50/60Hz			
	Rated Input Current	<0.10A	<0.20A	<0.30A	<0.35A
	Input Current	<0.11A	<0.22A	<0.34A	<0.39A
	Power Factor	≥0.95			
	THD	≤10%			
	Efficiency	≥90%		≥93%	≥92%
	Inrush current	≤24A&190uS		≤37A&300uS	≤45A&256uS
	No load wattage	≤0.35W （DALI OFF）			
	Stand-by power consumption	-			
Protection	Short circuit protection	Pass			
	Over voltage protection	Pass			
	Over temperature protection	-			
Safety &EMC	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S;I/P-DA1/DA2:1.5kv 5mA 60S			
	Isolation Resistance	I/P-PG:500VDC,≥4M Ω; I/P-DA1/DA2:500VDC,≥4M Ω			
	Surge	L-N:1KV,L/N-PG:2KV;DA1-DA2:0.5kv			
	EMC Emission	CE-EMC/RCM:EN55015, EN61000-3-2, EN61000-3-3			
	EMC Immunity	CE-EMC/RCM:EN61000-4-2,3,4,5,6,11			

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. (°C)	0°C-25°C

Instructions for automatic test option

1.Once the unit is powered up, It will automatically initiate a self test and diagnostics as follows:
Every 4 seconds:Checking for battery disconnection, charger board fault, lamp failure and transformer failure.
Every month: Performing a 3minutes duration test.
Every year: performing a 1Hour or 3Hours duration test.
All test functions are factory preset and do not need field adjustment.

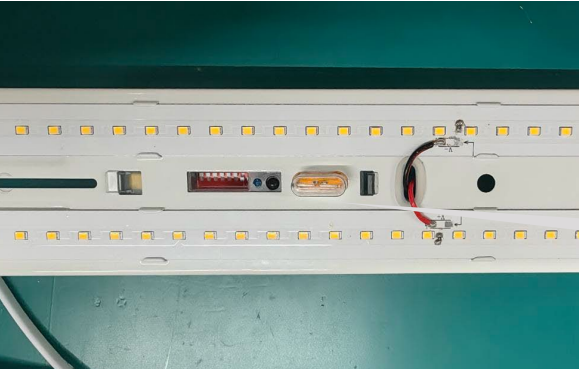
2.Dual colour Indicator LED Status Meanings.

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:
- 1) This product should be installed by a registered electrician in accordance with local standards and electrical regulations.
 - 2) Ensure the power supply is under isolated before installation.
 - 3) Sealed LiFePO4 rechargeable battery pack, the battery should be replaced when the required duration is no longer achieved.
 - 4) To avoid any damage to the fixture and ensure its performance, the battery should be replaced with same brand and type.

Datasheet (Sensor)

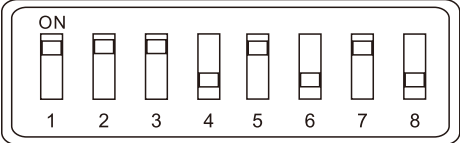
Sensor datasheet	
Operating voltage	220-240VAC 50/60Hz
Power consumption	<0.5W
Microwave frequency	5.8GHz±75MHz, ISM wave band
Transmission power	1.5W+0.5W
Detection angle	140°
Detection Area	4-6M 100%/75%/50%/25%
Hold time	5S/30S/90S/5Min/20Min/30Min
Daylight sensor	2lux/10lux/30lux/50lux/Disable
Stand-by DIM Level	-
Stand-by Period	-
Dimming Range	-
Microwave ON/OFF function	-
Installation Height	Recommended wall mounting height of 1.8 meters and ceiling mounting height of 3 meters.
Minimum mounting distance	Recommended mounting distance should be more than 3m
Operating temperature(°C)	-20℃~60℃



ON ↑	Detection Area				Hold Time				Daylight Sensor			
	1	2			3	4	5		6	7	8	
	ON	ON	100%		ON	ON	ON	5S	ON	ON	ON	2Lux
	-	ON	75%		-	ON	ON	30S	ON	ON	-	10Lux
	ON	-	50%		ON	-	ON	90S	-	ON	-	30Lux
					-	-	ON	5min	ON	-	-	50Lux
					ON	ON	-	20min	-	-	-	Disable
					-	-	-	30min	-	-	-	

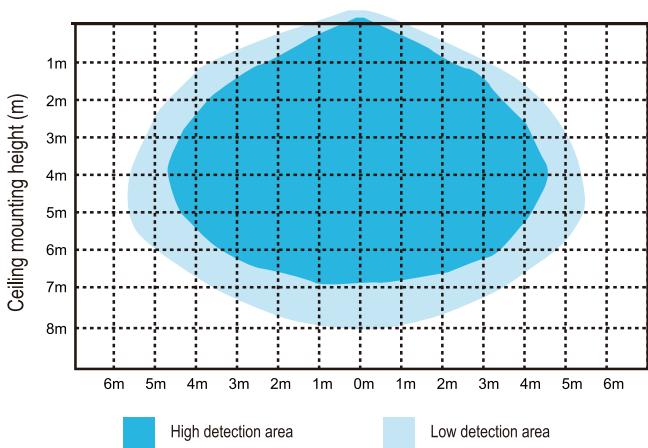
Factory setting:

Factory settings		
Detection Area	Hold Time	Daylight Sensor
100%	90S	30Lux

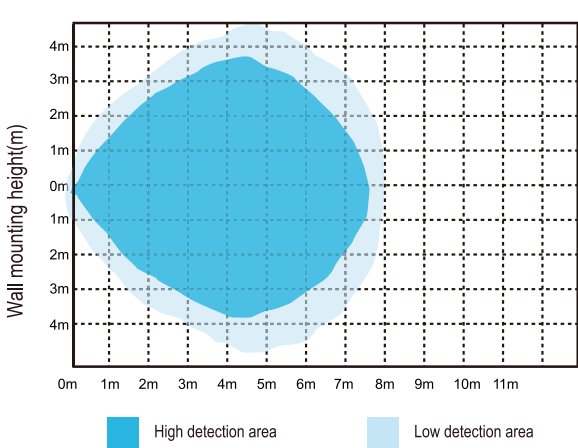


Induction Range

Ceiling Mounting pattern(Unit: m)



Wall Mounting pattern(Unit: m)



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.

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 highlyin fluenced oy 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.

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

Hold time				
	3	4	5	
I	ON	ON	ON	5S
II	-	ON	ON	30S
III	ON	-	ON	90S
IV	-	-	ON	5min
V	ON	ON	-	20min
VI	-	-	-	30min

Daylight sensor				
	6	7	8	
I	ON	ON	ON	2Lux
II	ON	ON	-	10Lux
III	-	ON	-	30Lux
IV	ON	-	-	50Lux
V	-	-	-	Disable

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:

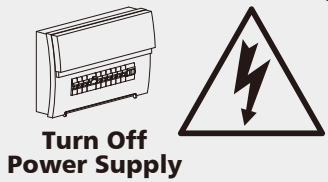
The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

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

Installation Instruction

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 before starting any installation. Read instructions & check you have all the tools & accessories to complete the installation correctly.

Surface mount installation

Code	A-01	A-02	A-03	A-04		A-05
ACC	x2	x2	x2	600 x2	1200/1500/1800 x4	x1

1

2 3

4 5

Spec	Hole spacing
600mm	230-380mm
1200mm	620-960mm
1500mm	900-1250mm
1800mm	1180-1500mm

6

Standard Emergency

DALI

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

N Neutral
E Earth
L' Unswitched
L switched

6

7 8

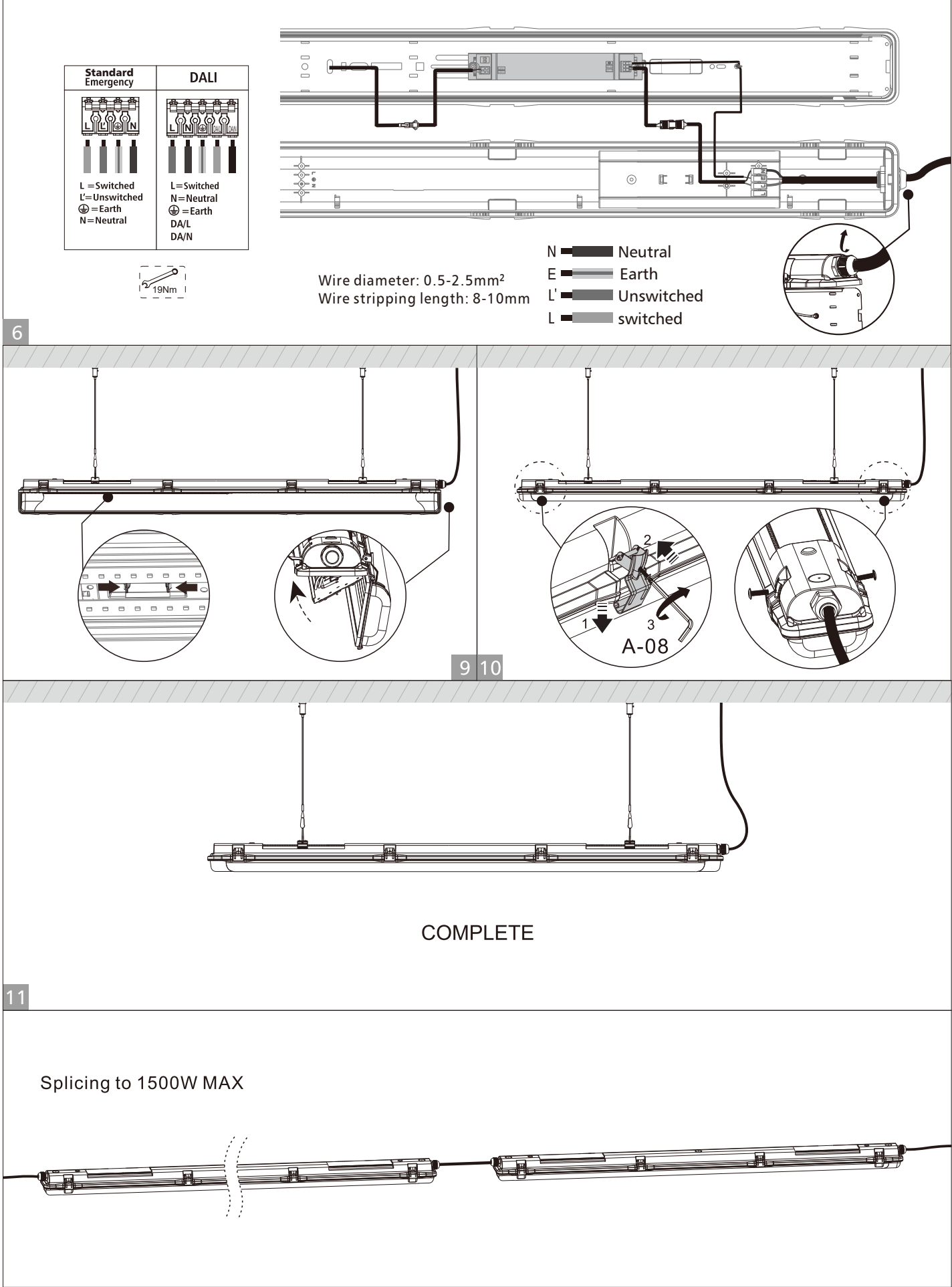
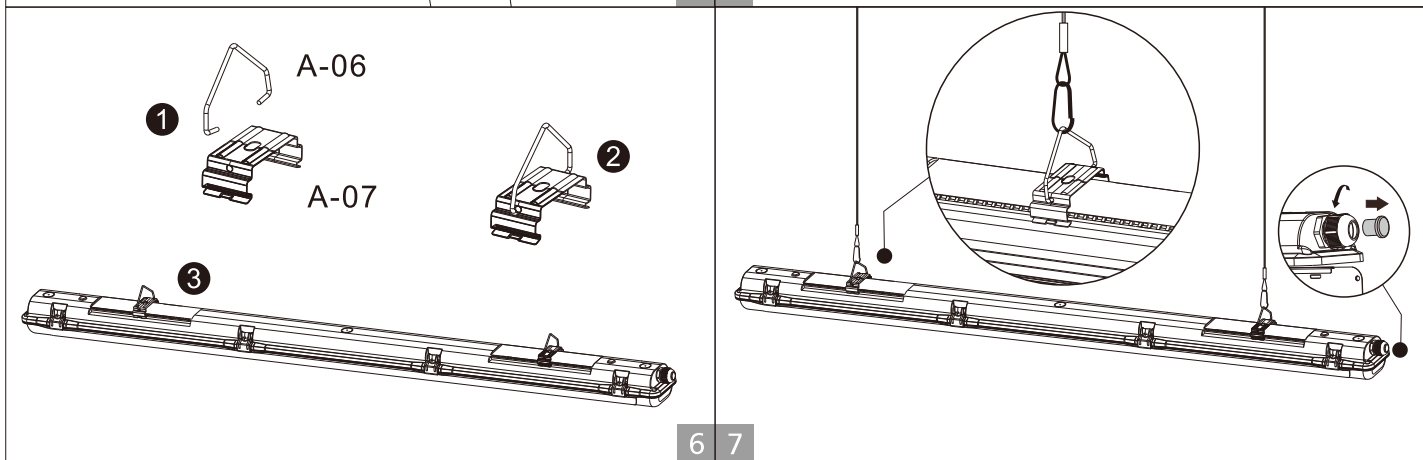
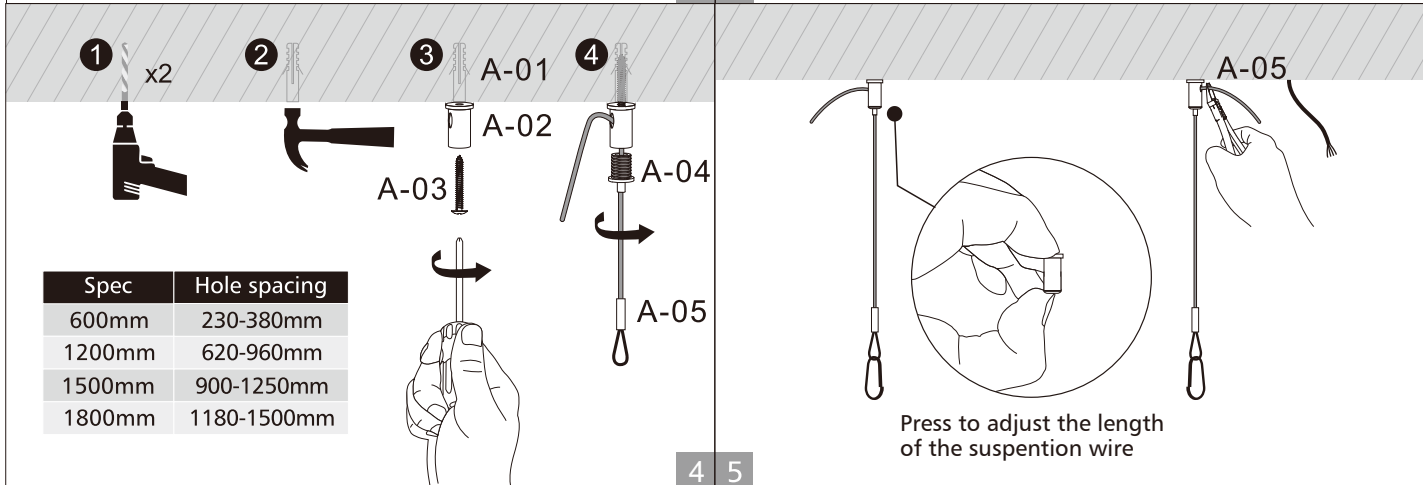
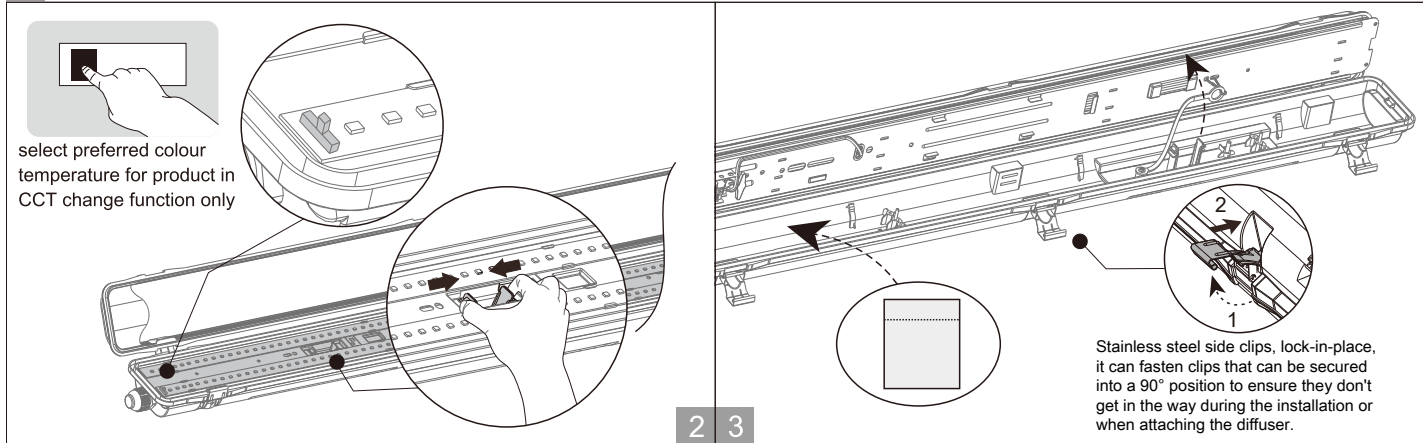
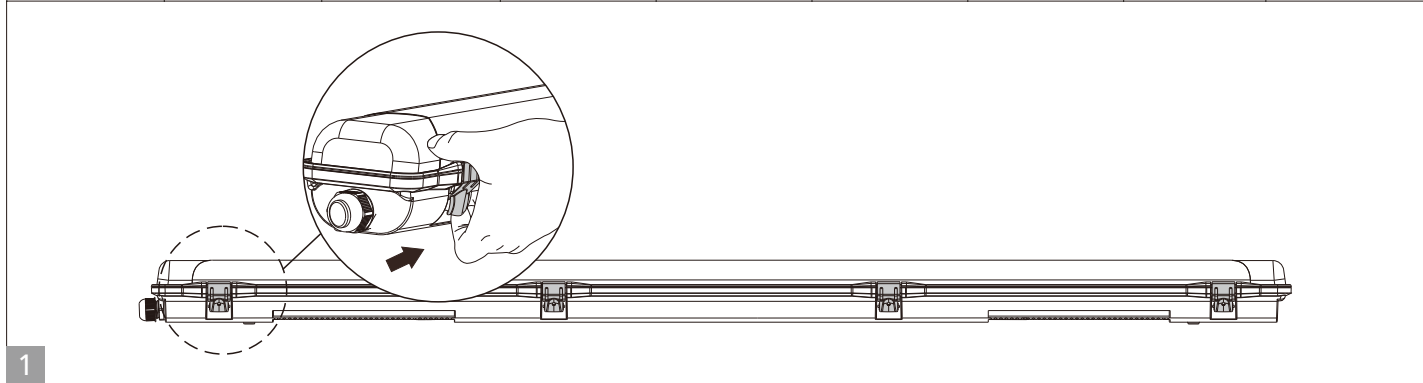
9

Splicing to 1500W MAX

COMPLETE

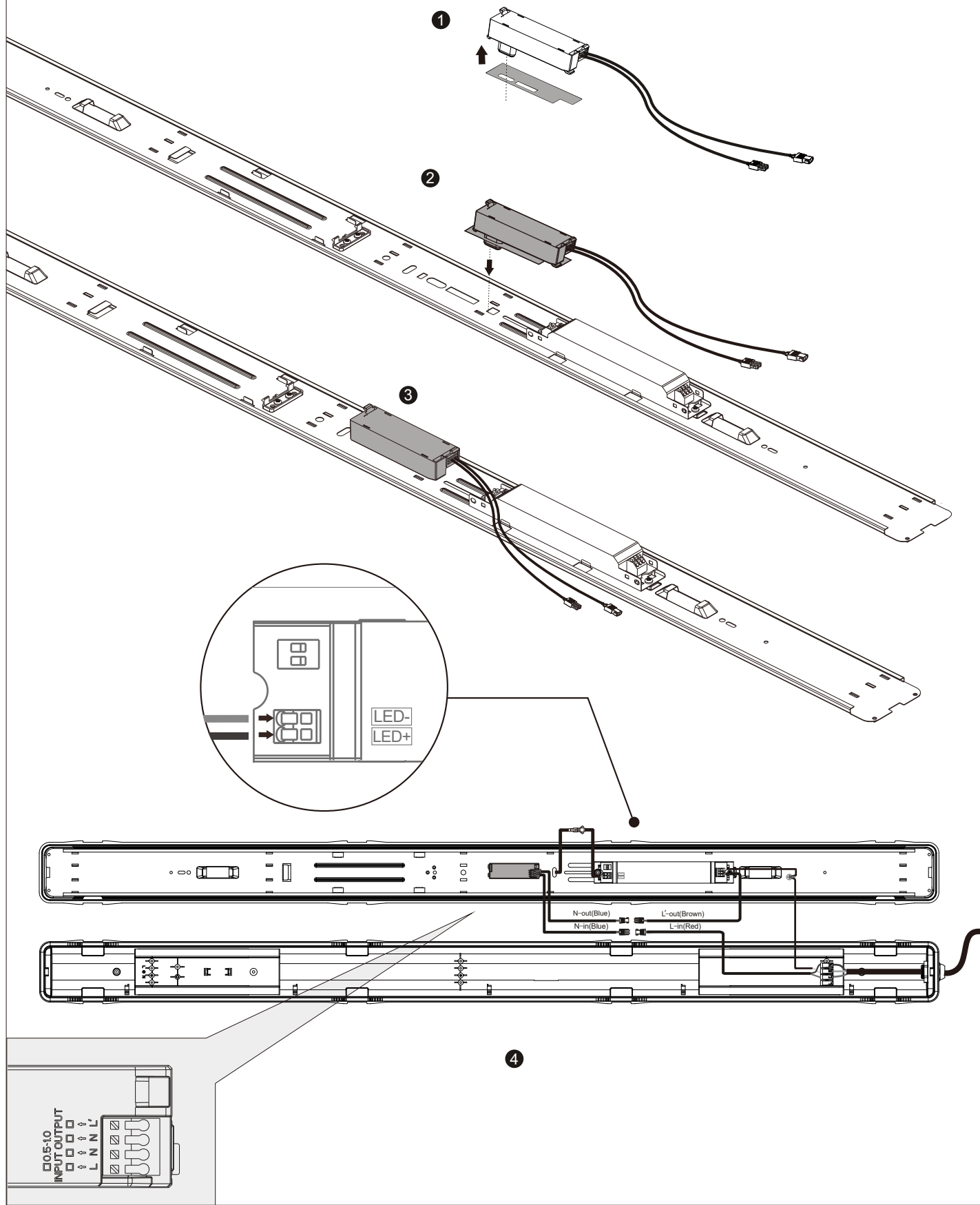
Pendant installation

Code	A-01 	A-02 	A-03 	A-04 	A-05 	A-06 	A-07 	A-08 
ACC	x2	x2	x2	x2	x2	x2	x2	x1

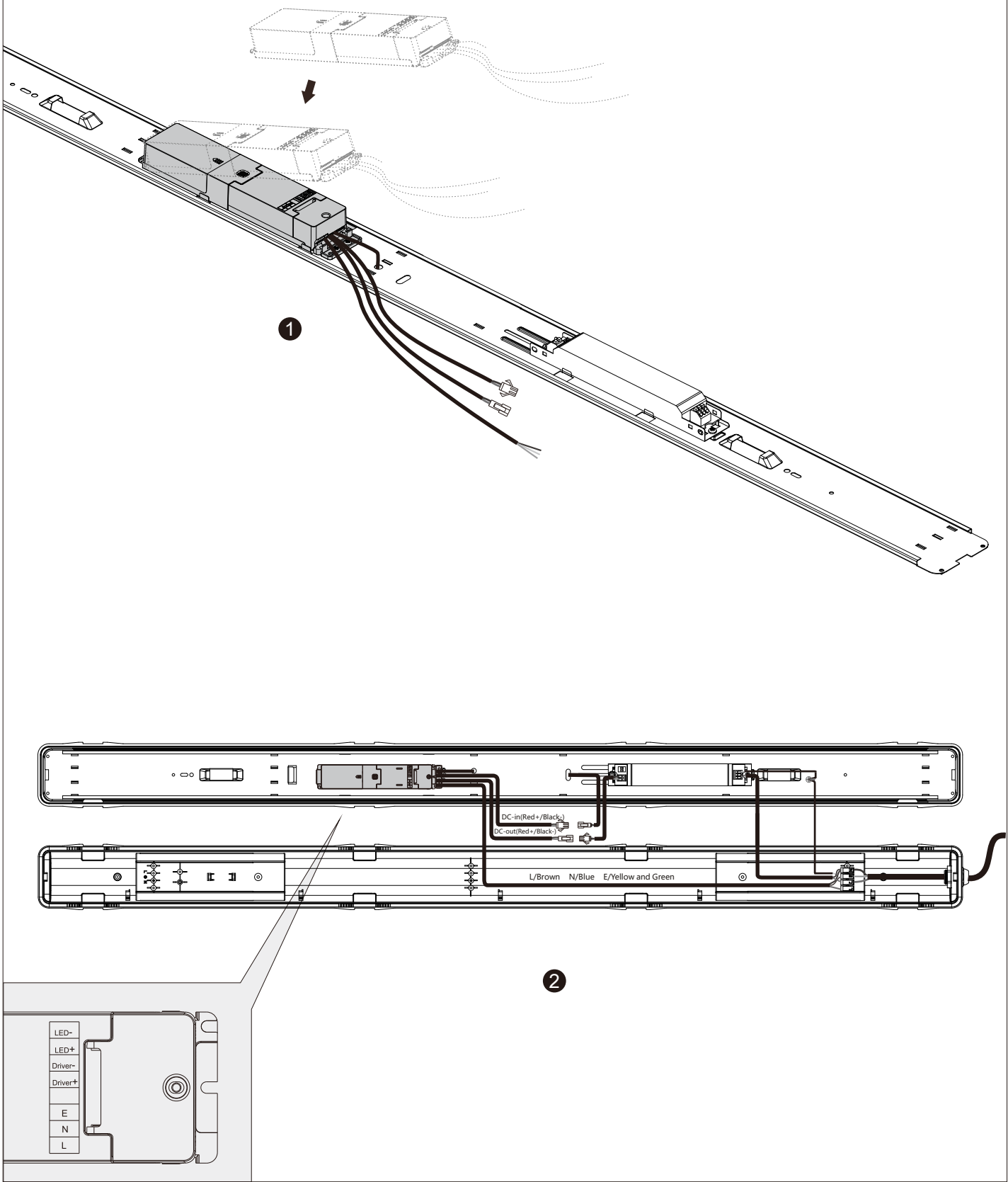


Accessories installation

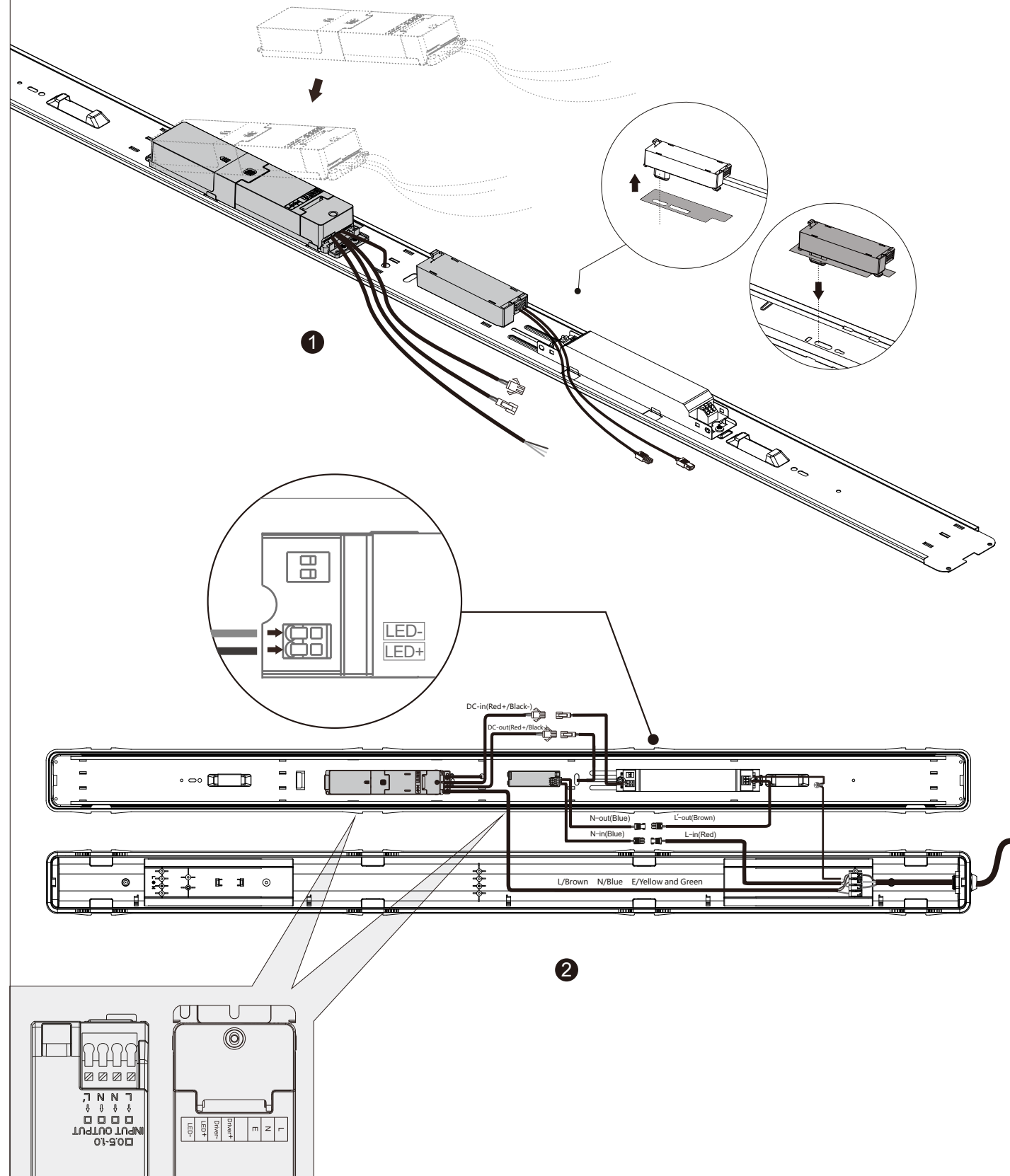
Sensor



LED Emergency Converter



Sensor And LED Emergency Converter





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