4-in-1 Evacuation sign

Data Sheet

For Series: OT-ES9119 ST/RST with telemando

OTC IND CO., LTD

Dear partners,
* Thanks for Choosing OTC LED energency products for your projects.

OTC always pursue high quality, steady quality products, competitive price and one-stop customer service, and offer enjoyable installation experience.

* All the OTC emergency lamp with 5 years quality guarantee (Battery 3 years) . If any doubts/ questions, please contact OTC project support team directly by email support@otcind.net . You will get solutions in 7~24 hours rapidly.

Contents

INNOVATING YOUR PROJECTS

1 Security related information

• Installation should be carried out in accordance with the latest edition of the I.E.E. Wiring regulations and taking into consideration the latest building regulations.

• Ensure that all electrical connections are tight with no loose strands, including factory made connections.

• Ensure there is adequate free air circulation of at least 100mm around the luminaire. It is the installer's responsibility to consider fire risk and take appropriate precautions.

•A seperate enclosure may be required if this unit is to be used in dusty and wet environments.
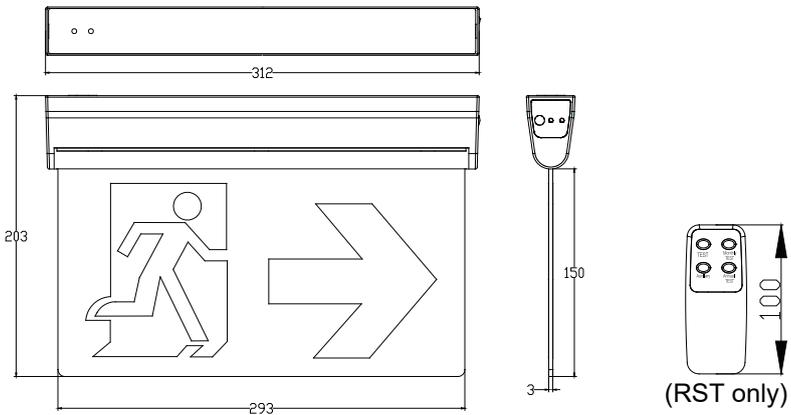
Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product.Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.
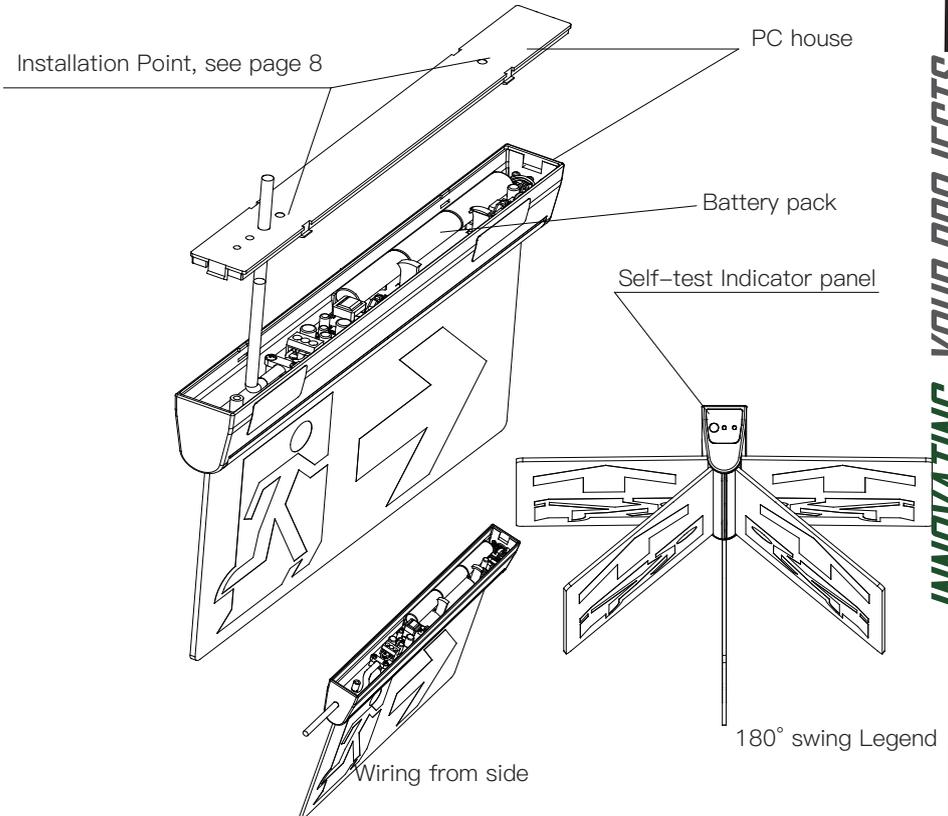
2 Packing list

OT- ES9119 *1

1m   hunging pack

The Cancopy*1
(Optional)

4 pieces pictograms

4*30 2pcs

4*25 1pc

4*8 1pc

Cable Protection
ring *1

Side wall mounting pack

Cable fasten set *1

Installation accessories

TEST   Monthly
         TEST

Auxiliary Annual
           TEST

Remote controller *1
Optional

Usermanual

INNOVATING YOUR PROJECTS

Model	Art Nr. OT-ES9119
	ES9119-RST+ with telemando
Material	Polycarbonate + PMMA
LED Chips	22pcs SMD 4014
Color Rendering Index	>80
Degree of protection	IP20
Input Voltage	AC200-240V 50/60HZ
Input power	2.5 W if maintained / 1.5 W if non-maintained
Power factor	>0.5
Emergency changeover	<0.5S
Emergency mode	Maintained & non-maintained (See page 7)
LED lifespan	50,000 hrs
Guarantee	5 years (Battery 3 years)
Emergency Standard	60598-2-22:2021 & IEC 61347-2-7
Legend stanrdard	ISO7010:2019
The Photonetic	ISO 3864-4:2011 / EN 1838-2013
Emergency Pack	3.6V 0.6Ah
Emergency time	3 Hours
Test	Manual + self + remote test
Telemando Control	± 12V
Charging indicator	Green
Faulty indicator	Red
Charging details	60mA, Full charged in 24 hours
Disharging details	150mA, 3 hours emergency time
Luminous Flux(Mains)	60LM
Luminous Flux(EM)	60LM

312

203

293

150

3

100

(RST only)

4 General construction

Installation Point, see page 8

PC house

Battery pack

Self—test Indicator panel

180° swing Legend

Wiring from side

INNOVATING YOUR PROJECTS

4# . Rest mode & storage

4#.1 This luminaire conbined rest mode.

When the AC supply failure / cut down. The EM LED on.

– If the battery over discharged, The luminaire will changeover
rest mode automatically.
– You can click the ④ test button. and the luminaire also can
changeove rest mode.

4#.2 Storage & transportation

– Make sure the luminaire in rest mode
– Keep the storage temperature 0~30°C
– Keep away from inflammables; keep dry & ventilation.

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5.1 Testing (If no failure)

5.1.1. Manual function test.
     ES9119–ST/ES9119–RST: Active the ④ test button.
     ES9119RST:Press "TEST" switch on controller.

   a) The ② Charging indicator OFF.
   b) The Emergency function ON.
   c) The test will cut off the mains

5.1.2 Monthly test.
     ES9119–ST/ES9119–RST: Active the ④test button for 5 second;
     ES89119–RST: Press the "Monthly TEST" switch on controller;
     or the lamp installed every 30 days.

   a) The ② Charging indicator will flash in 1Hz for 128s;
   b) The Emergency function ON;
   c) The test finished and back to standby mode.

5.1.3 Annual test.
     ES9119–ST/ES9119–RST: Active the ④test button for 7 second;
     ES9119RST: Press the "Annual TEST switch on controller;
     or the lamp installed every 180 days.

   a) The ② Charging indicator will flash in 2Hz for 3hours;
   b) The charging will be cut off & emergency function ON 3hours;
   c) The lamp back to standby mode after test.

④ Test button   ③ Faulty Ind.

②Charging Ind.

Remote test controller
OT-ES9119RST only
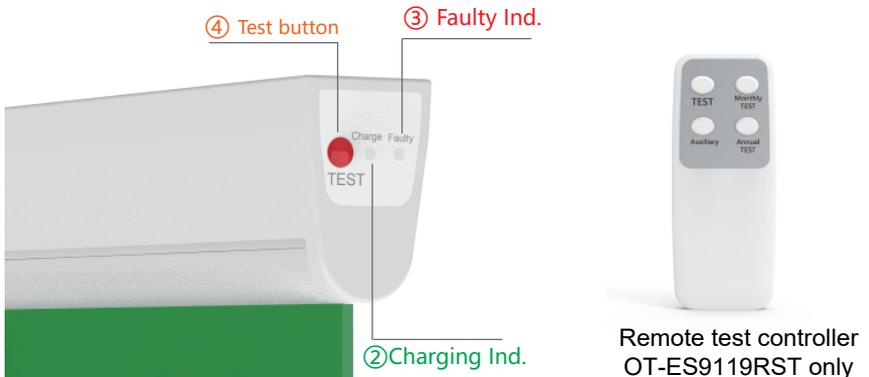
5.2 Testing（If any failure, Only ES9119–ST/RST）

5.2.1 Battery failure: ● ● ● ● ●
Monitored constantly. The ③ faulty indicator will falsh in 1 Hz if the battery failure any time.

5.2.2 LED load failure: ● ● ● ● ● ● ● ● ● ●
If press test button, or the luminary self–monthly test. The ③ faulty indicator will falsh in 2 Hz if LED load failure.

5.2.3 Duration failure: ▬▬▬▬▬▬▬▬
Only in Annual self–test. The ③ faulty indicator will turn on constantly if the Battery can not last 3 hours

6 Emergency control logic

The emergency function control logic

Operation	Charging indicator		Faulty Indicator (RED)		Emergency LED		Emergency LED	
Time line (Second)	1 S	1 S	1 S	1 S	1 S	1 S	1 S	1 S
Normal charging	Constantly on		OFF		Constantly on		OFF	
Normal AC Failure	OFF		OFF		Constantly on		Constantly on	
Manual test	OFF		OFF		Constantly on		Constantly on	
Monthly self-test	●	●	OFF		Constantly on		Constantly on	
Annual self-test	● ●	● ●	OFF		Constantly on		Constantly on	
Battery circuit failure	OFF		●	●	Constantly on		OFF	
Light source failure	Constantly on		● ●	● ●	OFF		OFF	
Duration test failure	Constantly on		Constantly on		Constantly on		OFF	

Before   **After**

No Key switch, No Harry, No ladders
Safe / Easy / Convenient
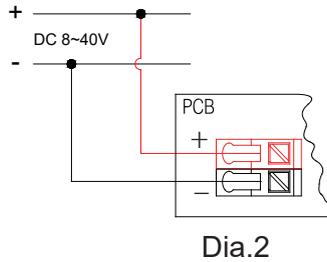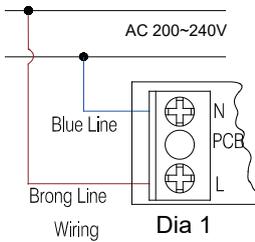
OTC

Original technology
Creating the life

7.1 Emergency function test before installation

7.1.1. Chose the cable wiring way according page 4.
Connect the AC cable according to the Dia 1.

-- The charging indicator on,
-- The Faulty indicator off,

7.1.2. Press the test button, The charging indicator off, and emergency function actved.

7.1.3. Cut off the AC power supply, The Charging indicator off and emergency functon on.

AC 200~240V

Blue Line

N
PCB
L

Brong Line

Wiring   **Dia 1**

+ DC 8~40V
-

PCB
+

−

Dia.2

7.2 Maintained & non-maintained mode changeover

a) The OT-ES9119-ST/RST was preset Maintained mode.

④ Test button

Press the ④ test button constantly for 11 seconds

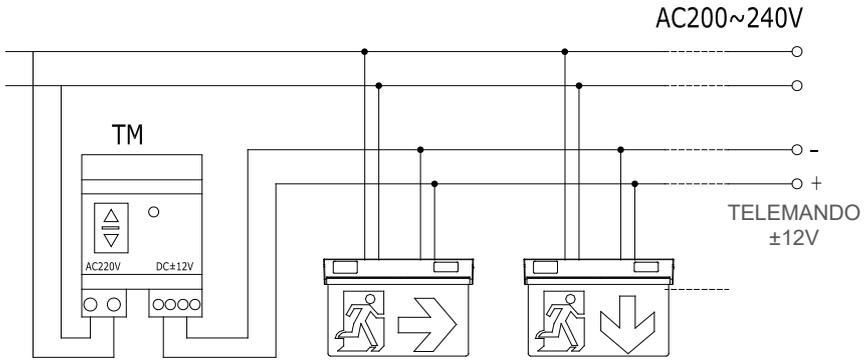Method 2
ES809-RST only

Method 1

b) AC power on
Method 1: Press the ④ test button constantly for 11 seconds
Method 2: Press the "Auxiliary" switch on remote test controller for 6 seconds (ES9119-RST only).

The OT-ES9119 will change the Emergency work mode.

AC200~240V

TM

AC220V   DC±12V

TELEMANDO
±12V

TELEMANDO
±12V

DC8~40V

AC200~240V

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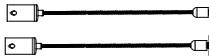Creating the life
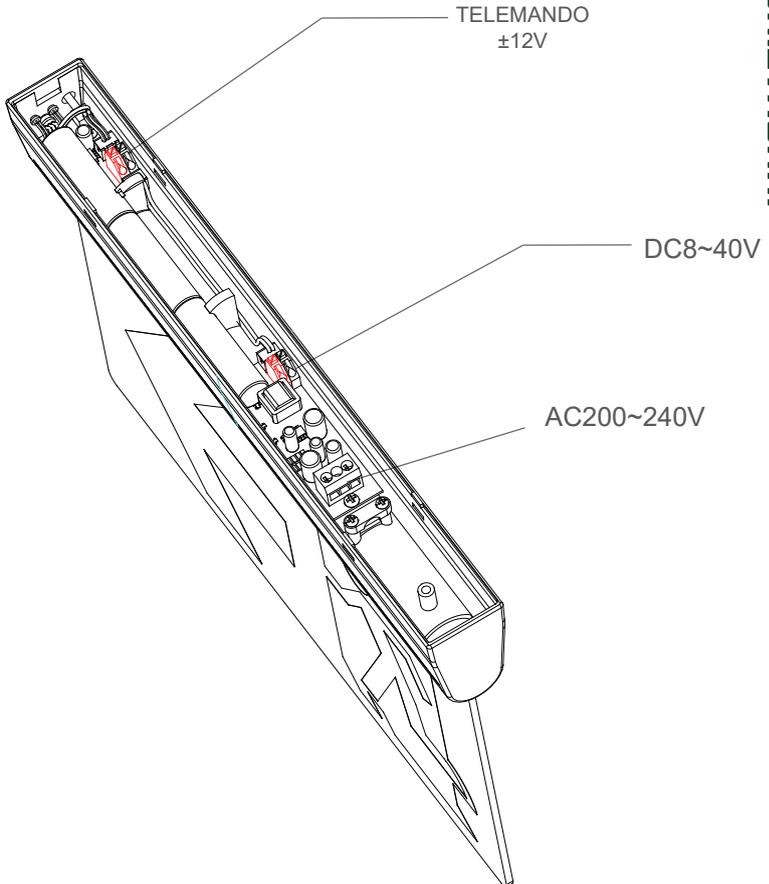
9 Installation guide

Caution

1. All OTC emergency lights are designed for projects. Only qualified electrician can install or maintain it.
2. The mains have to be off during the installation or maintenance.
3. Keep the product far from heat sources and in a well ventilated area.
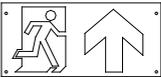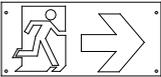
Installation pack

Alligator Anchor*2

4*30 Screws * 2

4*8   screws*1
4*25 screws*1

The Side-Wall-mouting Accessory

Hunging mouting Accessory *2
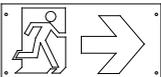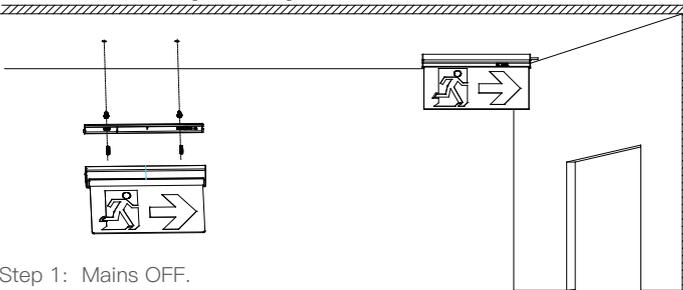
Install the PVC Legend
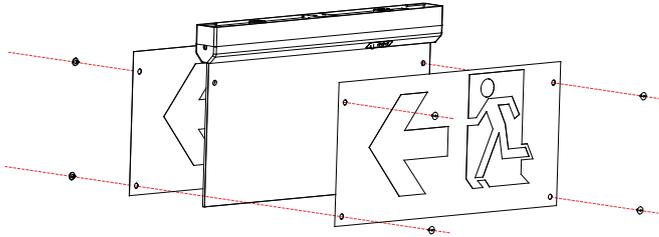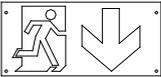
1) Chose the right PVC legend.
2) Install the legend by clips.

Installation 1: Ceiling mounting

Ceiling installation device

Step 1: Mains OFF.
Step 2: Install the base on to the ceiling by 2 pieces 4*30 screws
Step 3: Wiring The cable
         and testing accoring Page 7
Step 4: Fix the sign on the ceiling
Step 5: Mains ON

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Installation 2: Side wall mounting

4*25 screw   4*8 screw

4*30 screws
②

③

4*8   4*25   4*30

Installation device
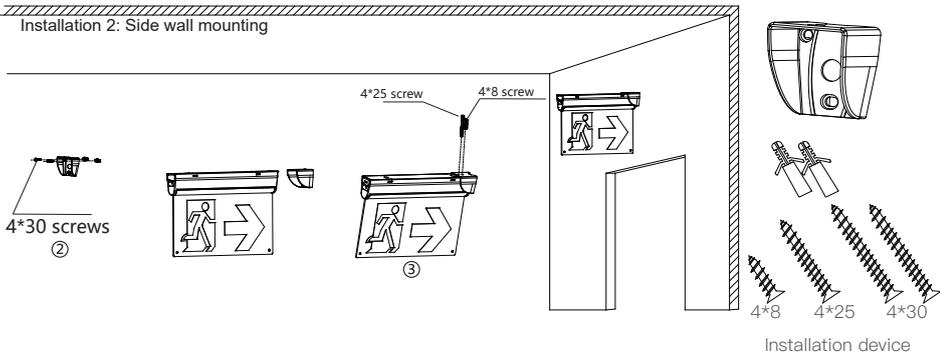
Step 1: Mains OFF.
Step 2: Install the wall mounting accessory on to ES9921
Step 3: Fix the sign on the wall
Step 4: Wiring and testing accoring Page 7   (From side recommend)
Step 5: Mains ON

Installation 3: Wall mounting

90°

Installation device
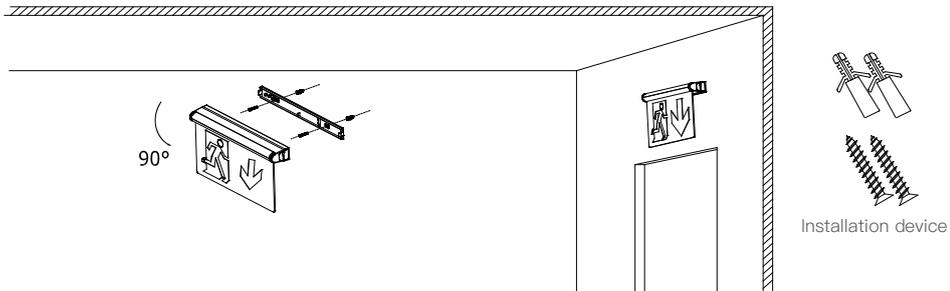
Step 1: Mains OFF.
Step 2: Install the base on to the wall by 2 pcs 4*30 screws
Step 3: Fix the lamp on to the wall.
Step 4: Wiring and testing accoring Page 7   (From side recommend)
Step 5: Mains ON

Installation 4: Hunging
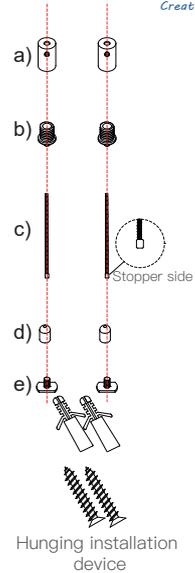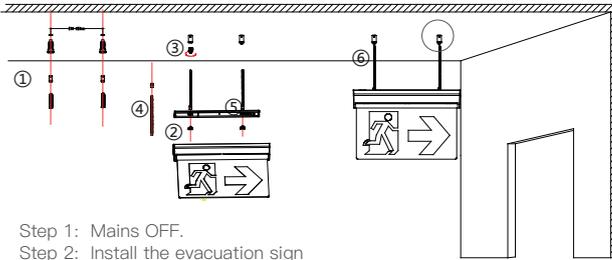
Step 1: Mains OFF.
Step 2: Install the evacuation sign
 ① Install the a) by screws, distance 180–200mm recommend.
  ② Install e) into the base of sign.
  ③ Install b) into a) by screwing.
  ④ Incert the c) string into d) from no stopper side.
  ⑤ Install c)+d) on to e) according the drawing by screwing.
  ⑥ Incert the string into b) set the length accroding Pic8.1.

Step 3: Wiring and testing accoring Page 7
Step 4: Mains ON

Pic8.1

a)
b)
c)
Stopper side
d)
e)

Hunging installation device

Installation 5: Hanging with canopy
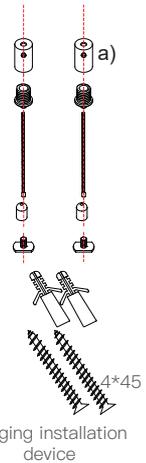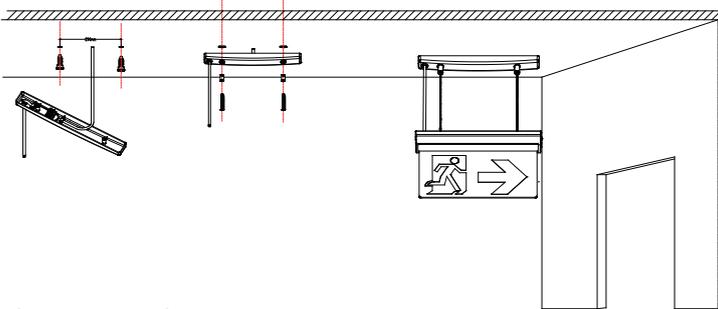
Step 1: Mains OFF.
Step 2: Connect the power cable to canopy.
Step 3: Fix the canopy toghether with a) of haning accessory
          to the ceiling by 4*45mm screws
Step 4: Install the ES9119 same as   ↑Installation 4↑.
Step 5: Wiring and test accoring page 7
Step 6: Mains ON

a)

4*45

Hunging installation device

Canopy
(Optional Device)

Luminaire emergency inspection record

month	Test	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Functional										
2	Functional										
3	Functional										
4	Functional										
5	Functional										
6	1 hour										
7	Functional										
8	Functional										
9	Functional										
10	Functional										
11	Functional										
12	3 hours										

Installed By:

....

Luminaire Locaton:

....

Installed Date:

....

Contact details:

....

Luminaire NO.:

....

INNOVATING YOUR PROJECTS

11 Cheap solutions DIY

WARNING

NO.	DIY Items	OTC default Solutions	Cheaper solutions	Dis-advantages
1	MOQ	No MOQ, 1pcs available	1000Pcs	
2	Material of house	PC Plastic	ABS	Not fire resist
3	Battery pack	3.6V 0.6Ah Ni-Cd	3.7V Li-ion	1 years guarantee for Li-ion
4	EM driver	Isolated	CBB solution	Can not IEC61347-2-7 compliant
5	Lumen output	Constant brightness	Bright at beginning Waker by the end	Can not IEC60598-2-22:2014, 22.17.1 compliant
6	Duration time	180mins	90mins or others	According local fire department requests
7	Installation pack	Installation pack in Page2	Only required installation facilities	Not recommend if sell online.