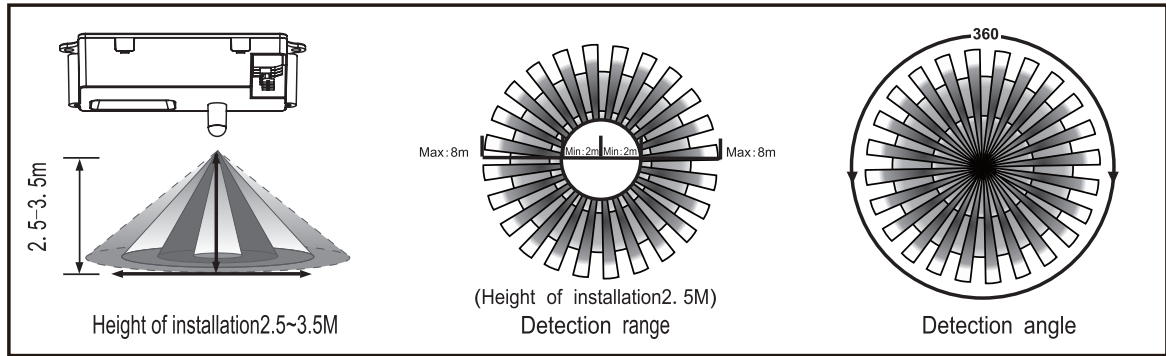# MORDAX SENSOR

94057

Thank you for purchasing this light fitting. Please read the instruction carefully before use to ensure safe and satisfactory operation of this product. Please retain these instruction for future reference.

SPECIFICATIONS

Power source:220-240V/AC
Power frequency: 50/60Hz
Transmission power: <0.2mW
Rated load:
1000W/5A,Max,tungsten(cosφ=1)(220-240V/AC)
300W/2.5A,Max,fluorescent(cosφ=0.5)(220-240V/AC)
HF system：5. 8GHz CW electric wave, ISM band
Detection angle：360°
Detection range：20%/50%/75%/100%

Time setting： 10sec±3sec/1min±10sec/5min±30sec/
10min±1min/15min±1min/20min±2min/
25min±2min/30min±3min(adjustable)
Light-control: 24H/10LUX/20LUX/50LUX/100LUX/
200LUX/300LUX/500LUX (adjustable)
Installation sit：indoors， ceiling mounting
Working temperature：-15℃~+70℃
Power consumption：approx. 0. 5W

NOTE：The high-frequency output of this sensor is <0. 2mW- that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.
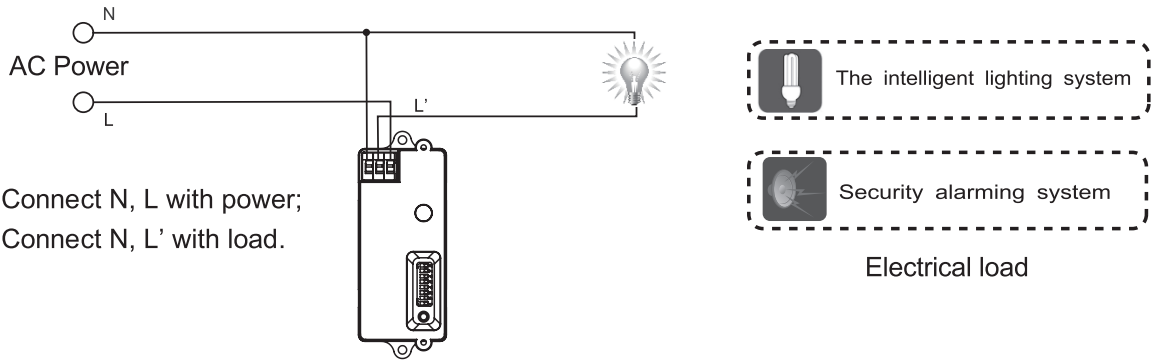
Transmission power：<0. 2mW

SENSOR INFORMATION

2. 5~3. 5m
Height of installation2.5~3.5M

Max：8m   Min:2m Min:2m   Max：8m
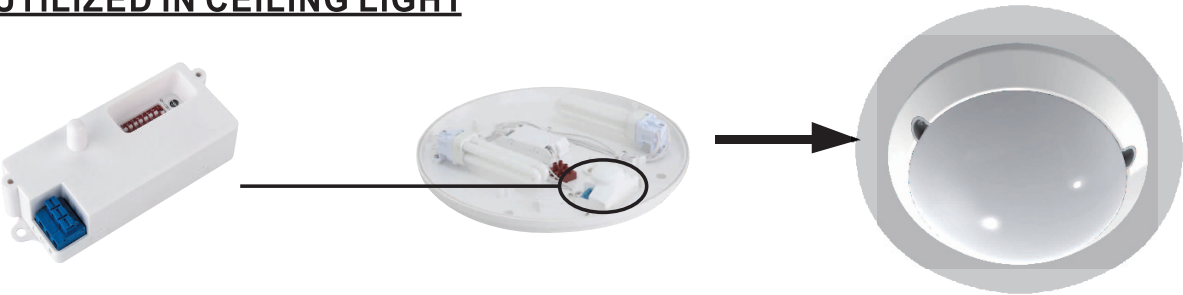(Height of installation2. 5M)
Detection range

360
Detection angle

UTILIZING FIELD AND INTRODUCTION

94057 is a moving object sensor that can detect range of 360°and it's working frequency is 5.8GHz.The advantage of this product is stable working state (stable working temperature: -15°C~+70°C), 94057 adopts a microwave sensor(high-frequency output<0.2mW),so that it is safe and performs better than infrared sensor.

It can be installed inside of product which is made of glass and plastic because microwave can go through them effect to microwave. Connect the product as below: you can change a common light into an automatic light.

N
AC Power
L
L'

Connect N, L with power;
Connect N, L' with load.

The intelligent lighting system

Security alarming system

Electrical load
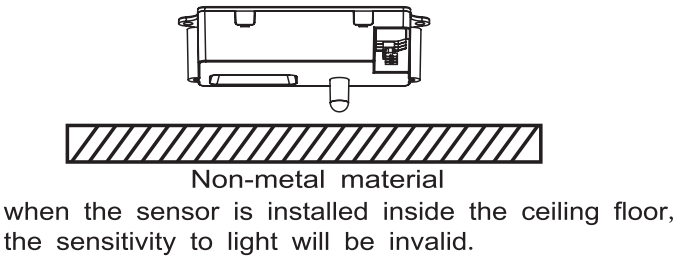
UTILIZED IN CEILING LIGHT

This product can be utilized in more fields than the above examples.

You can also install 94057 alone to act intelligent switch to control other load.
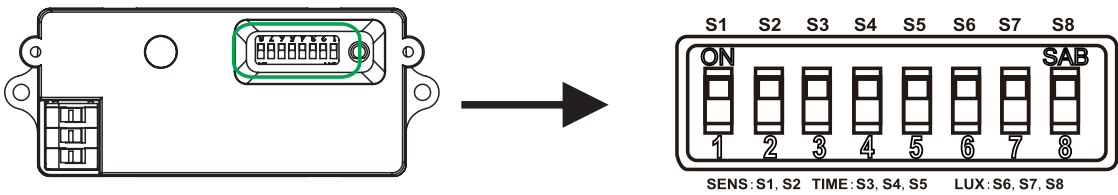
⚠ **Warning！**

The product can not work normally if there is metal material in front of the Installed place.

Non-metal material
when the sensor is installed inside the ceiling floor, the sensitivity to light will be invalid.

This product will be faithfully waiting for you. It will turn on the light automatically when you pass by, and turn off the light automatically when you leave off. You can set the closing delay time to meet your needs. For example, you may adjust the TIME sliding controller to select the delay time 10sec~30min when you think you will come back in 30mins. The TIME sliding controller is as follow (Keep away from the detecting zone after adjusting the testing time or that the detecting time will be inaccurate when any moving object is detected again by the product).

PARAMETER SETTING

Shown as chart below : By setting the S1, S2 to set the detection range of products,by setting S3,S4,S5 to set the delay time of products, by setting the S6, S7, S8 to set the light-control of products.

S1 S2 S3 S4 S5 S6 S7 S8
ON   SAB
1   2   3   4   5   6   7   8
SENS: S1, S2 TIME:S3, S4, S5   LUX: S6, S7, S8

saxby lighting

saxby lighting

Detection range setting (sensitivity)

Detection range is the term used to describe the radius of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 2.5m, pull switch to the ON position as "1", pull switch to the OFF position as "0", switch location and detection range of the corresponding table is as follows:

S1   S2

ON

1   2

SENS：S1, S2
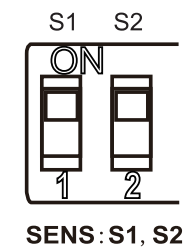
S1	S2	detection range
0	0	20%
0	1	50%
1	0	75%
1	1	100%

Note: the above detection range is gained if the detected person is between 1.6m~1.7m tall with middle figure and moves at a speed of 1.0~1.5m/sec. if person's stature, figure and moving speed change, the detection distance will also change.

ATTENTION: When use this product, please adjust the sensitivity to an appropriate position you need, please do not adjust the sensitivity to maximum, in case the product works abnormally because of wrong motion detection, including blowing leaves & curtains,small animals, or even power grid & electrical equipment. All the above factors can lead to abnormal work.When the product does not work normally, please try to lower the sensitivity appropriately,and then test it.

Time setting

The light can be set to stay ON for any period of time between approx.10sec and a maximum of 30min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.
Pull switch to the ON position as "1", pull switch to the OFF position as "0", switch location and detection range of the corresponding table is as follows:

S3   S4   S5

3   4   5

SENS：S3, S4, S5
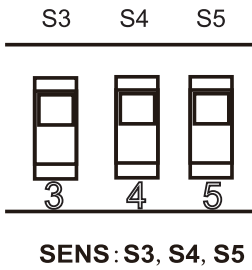
S3	S4	S5	TIME
0	0	0	10s
0	0	1	1min
0	1	0	5min
0	1	1	10min
1	0	0	15min
1	0	1	20min
1	1	0	25min
1	1	1	30min

NOTE: after the light switches OFF, it takes approx. 4sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Light-control setting

The chosen light response threshold can be infinitely from approx. 10-500lux, pull switch to the ON position as "1" , pull switch to the OFF position as "0", switch location and light-control of the corresponding table is as follows:

S6   S7   S8

SAB

6   7   8

LUX：S6, S7, S8
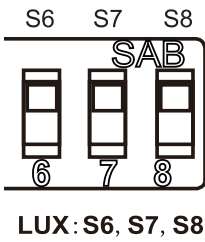
S6	S7	S8	LUX
0	0	0	24H
0	0	1	10LUX
0	1	0	20LUX
0	1	1	50LUX
1	0	0	100LUX
1	0	1	200LUX
1	1	0	300LUX
1	1	1	500LUX

⚠ Warning！ The following situation will lead to misoperation

1. Being installed in the rocking object will lead to misoperation.
2. The shaking curtain which is blown by wind will lead to misoperation, please select the suitable installed place.
3. Being installed in the place where the traffic is busy will lead to misoperation.
4. It will lead to misoperation when there are sparks produced by some equipment nearby.

TROUBLESHOOTING

| Malfunction	Cause	Remedy
The load will not work	• wrong light-control setting selected	• Adjust setting
	• load faulty	• Change load
	• mains switch OFF	• Switch ON
The load work always	• continuous movement in the detection zone	• check zone setting
The load work without any identifiable movement	• the sensor not mounted for detecting movement reliably	• securely mount enclosure
	• movement occurred, but not identified by the sensor(movement behind wall, movement of a small object in immediate lamp vicinity etc.)	• Check zone setting
The load will not work despite movement	• rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	• Check zone setting

Additional instruction manual

To prevent electrocution **switch off** at the mains supply before installing or maintaining this fitting.
Ensure other persons **cannot** restore the electrical supply without your knowledge.

Mordax 72700, 72701, 72702, 72703, 72704 with Sensor

Accessories:

94057 Mordax Sensor

01. Locate the 94057 sensor position.
02. Cut off the brown wire in appropriate length, connect the terminal **L** to sensor's **L**, and connect the driver **L** to sensor's **L'**.
03. Take appropriate length of the blue wire, connect sensor's **N** to terminal's **N**.
04. Install the 94057 sensor controller.
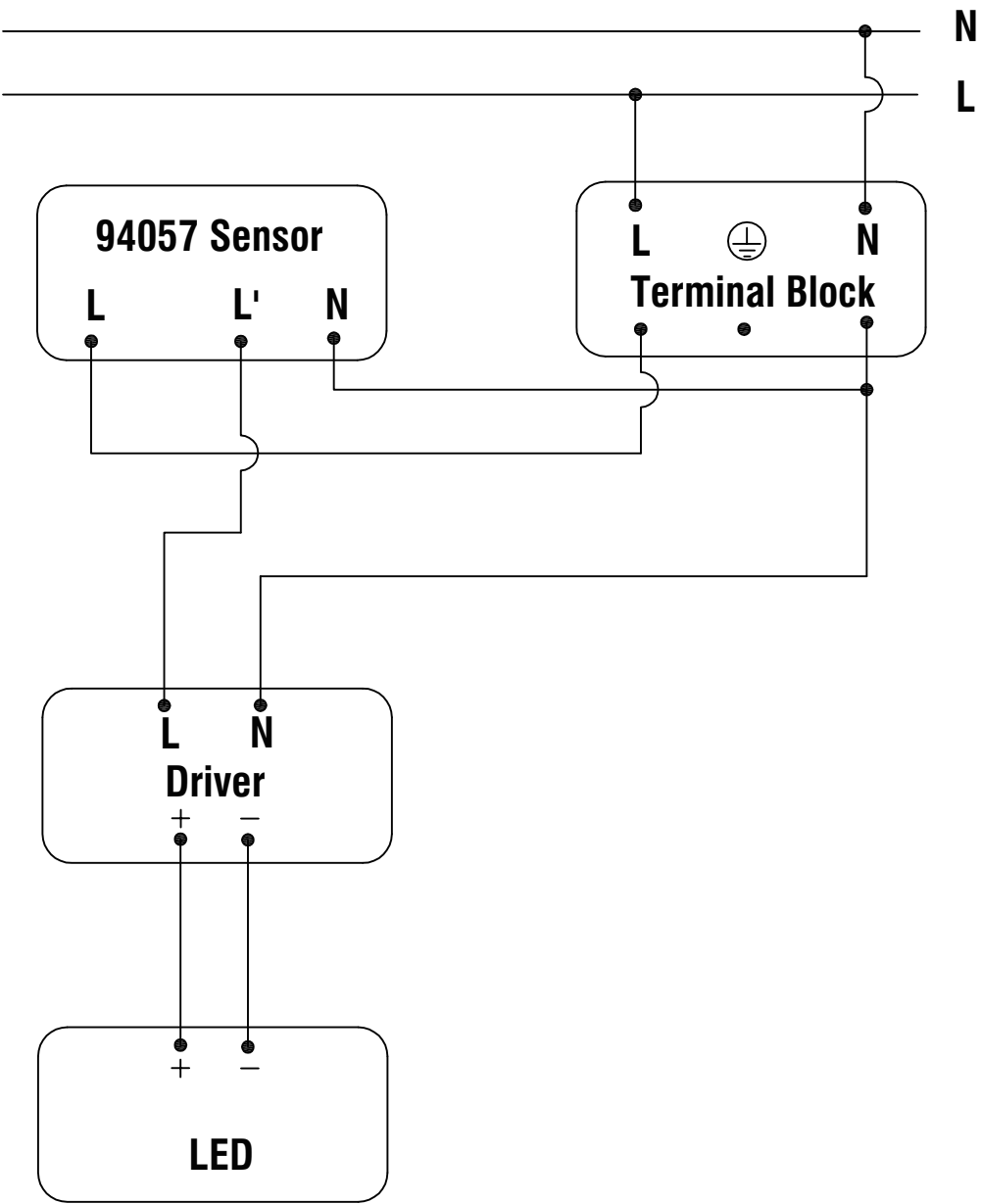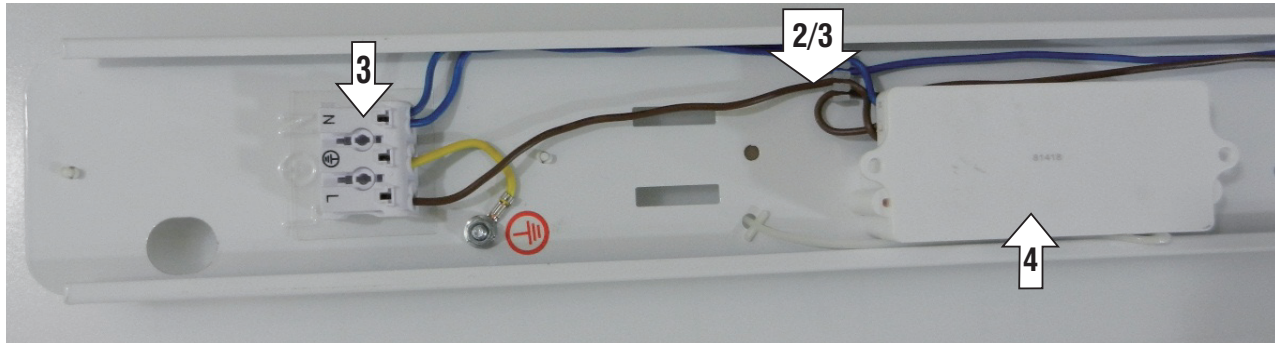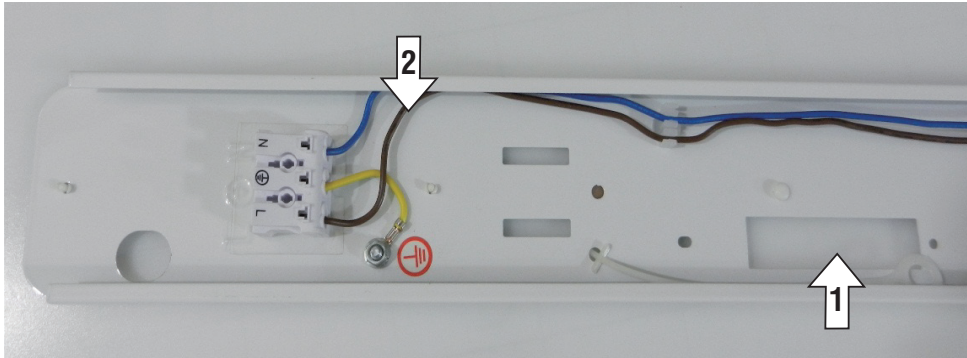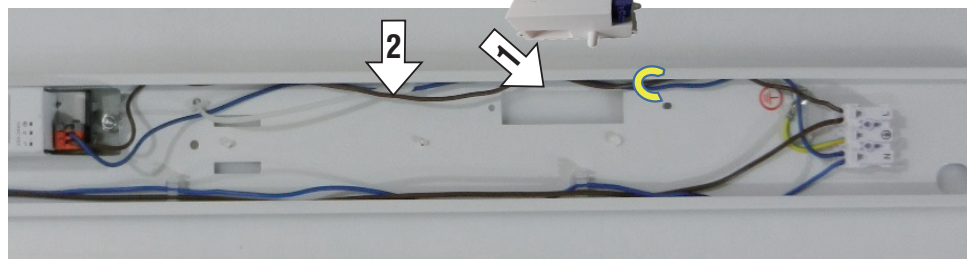
Mordax 72705 with Sensor

Accessories:

94057 Mordax Sensor

Connector x 1
(not supplied)

01. Locate the 94057 sensor position.
02. Cut the brown wire in the appropriate length between NO.1 LED driver input end and terminal. Then connect the terminal's **L** to sensor's **L** with the short end of the brown wire, and connect No.1 LED driver to a connector with the other part of the brown wire.
03. Locate the brown wire between terminal and No.2 LED driver, and remove it from terminal, then connect to the connector.
04. Take appropriate length of the brown wire, connect sensor's **L'** to the connector.
05. Take appropriate length of blue wire, connect sensor's **N** to termenal's **N**.
06. Install the 94057 sensor controller.

Press the terminal with the tool supplied, and then take off the brown wiring
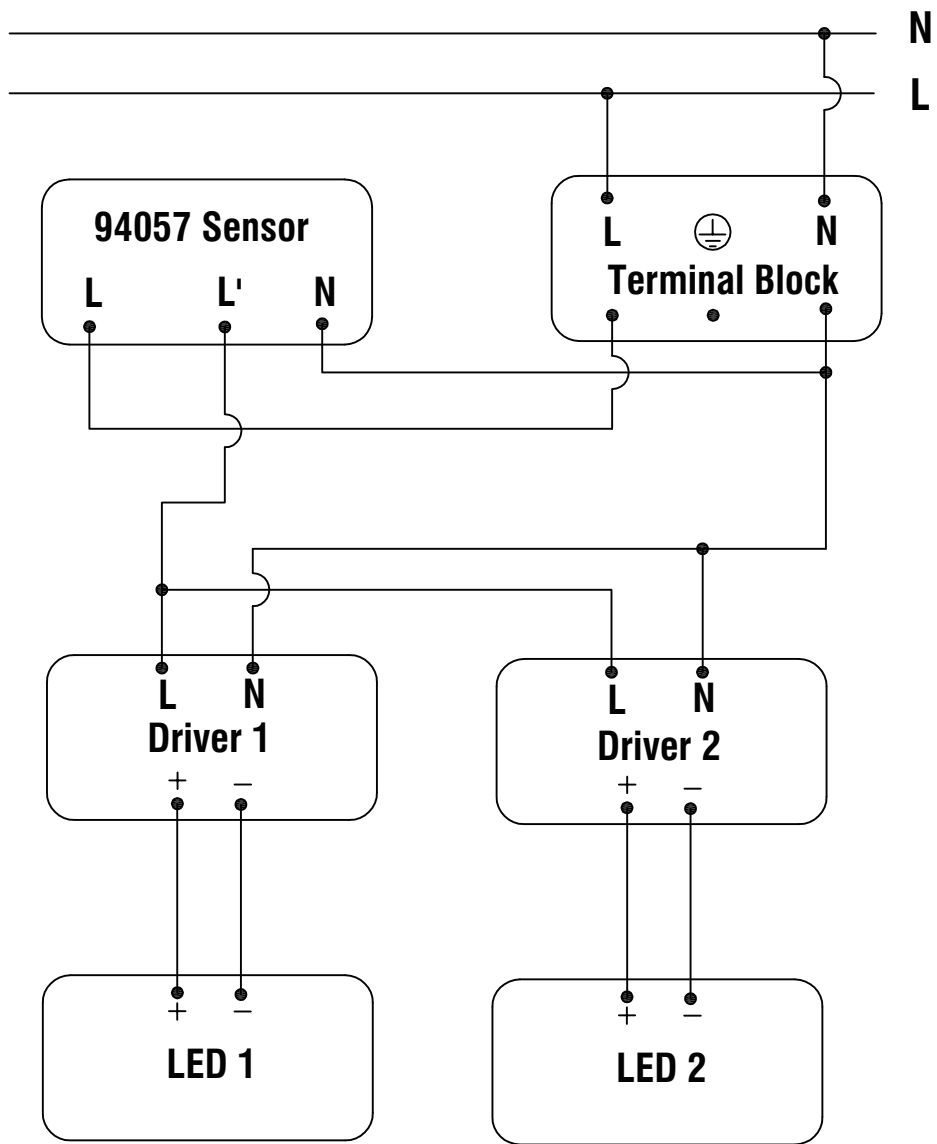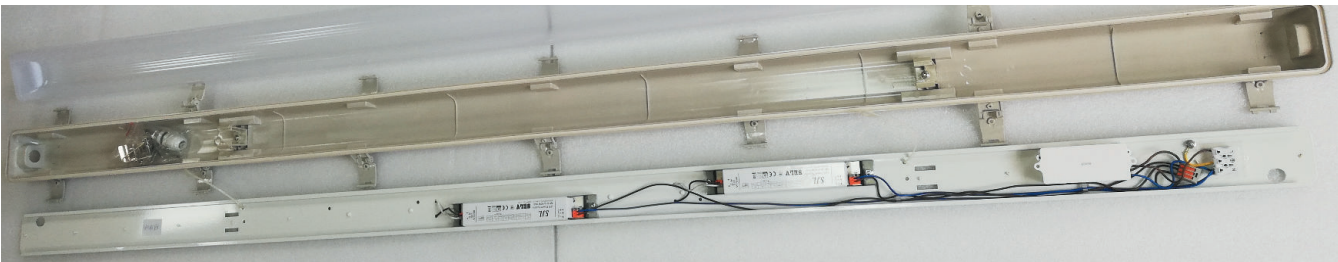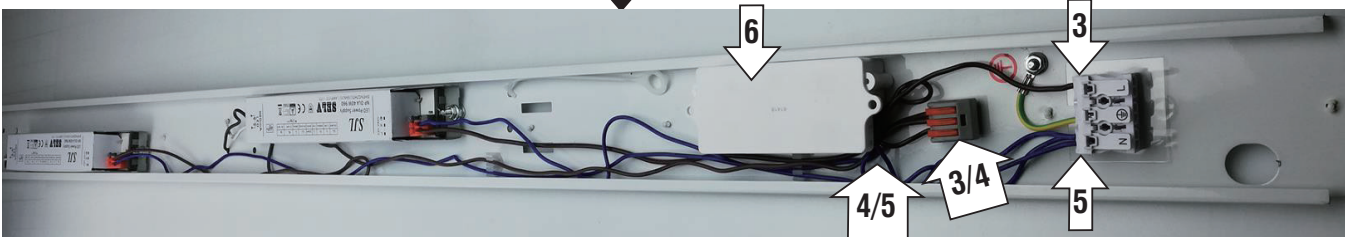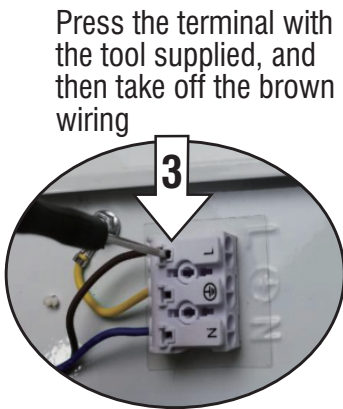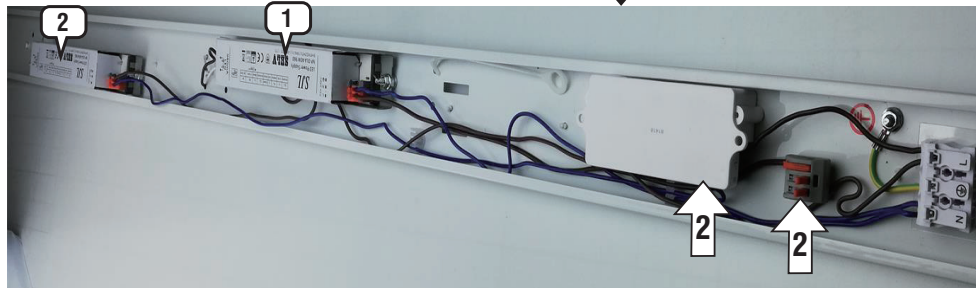
Mordax EM 72706, 72707, 72708, 72709, 72710 with Sensor
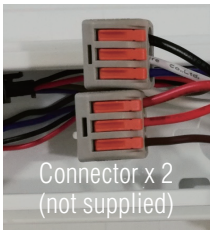
Accessories:

94057 Mordax Sensor

01. Locate the 94057 sensor position.
02. Cut off the brown wire between terminal's **2**(**Ls**) and LED driver in the appropriate length. connect two ends to the sensor's **L** and **L'** (**L'** to driver).
03. Take appropriate length of the blue wire, connect sensor to terminal's **N**.
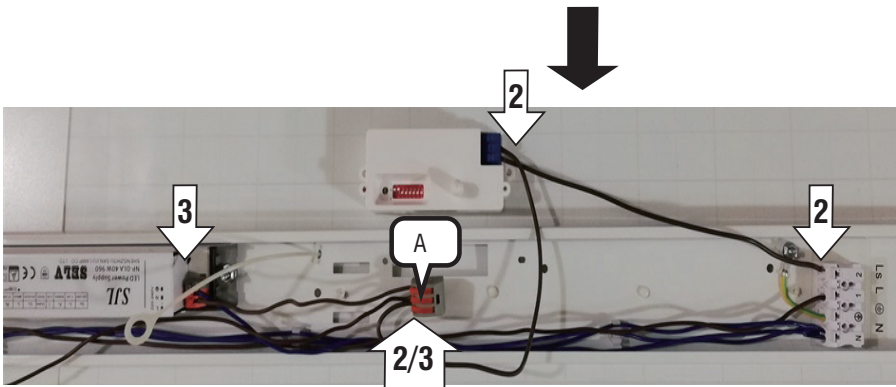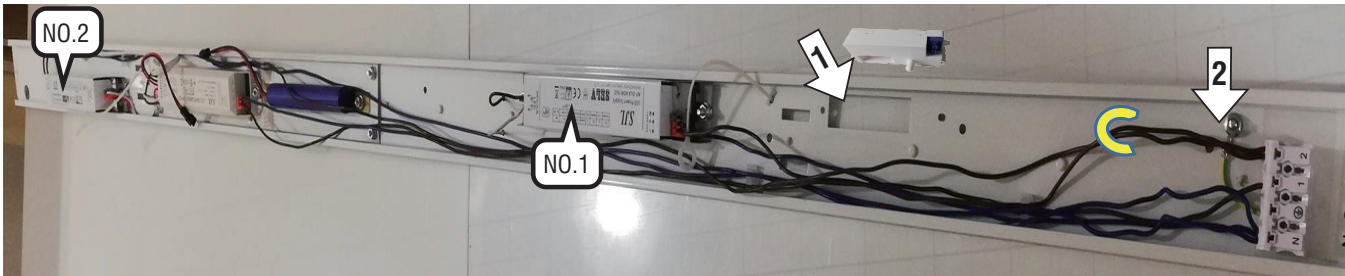04. Install the 94057 sensor controller.
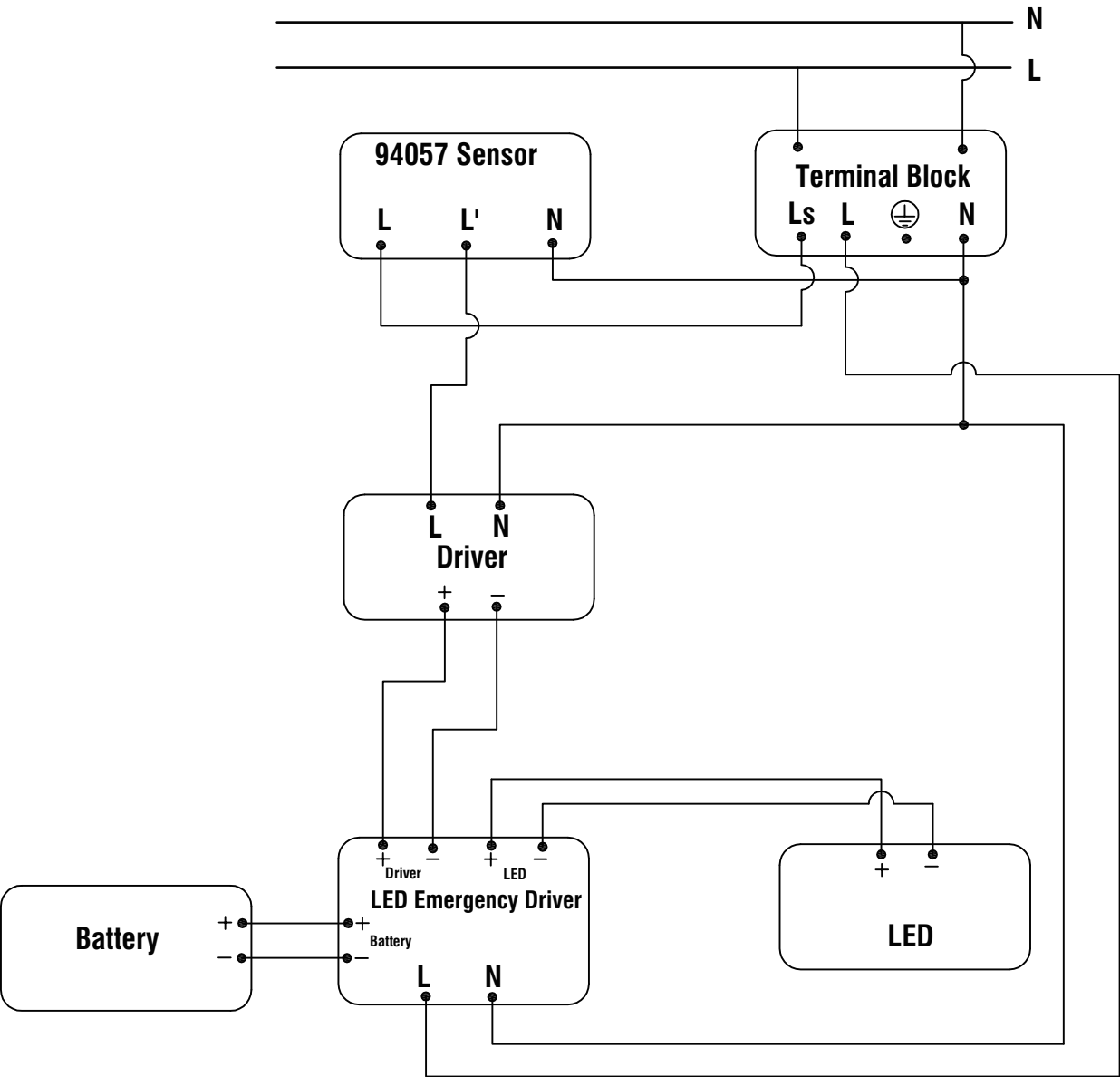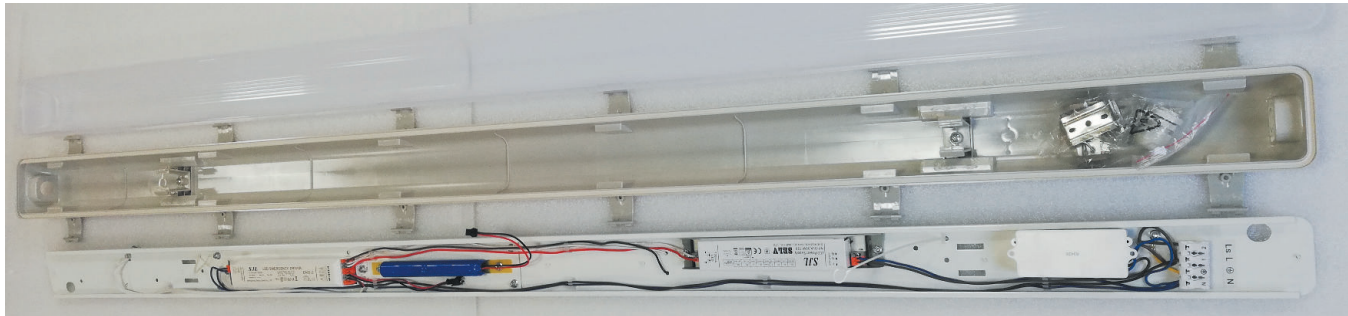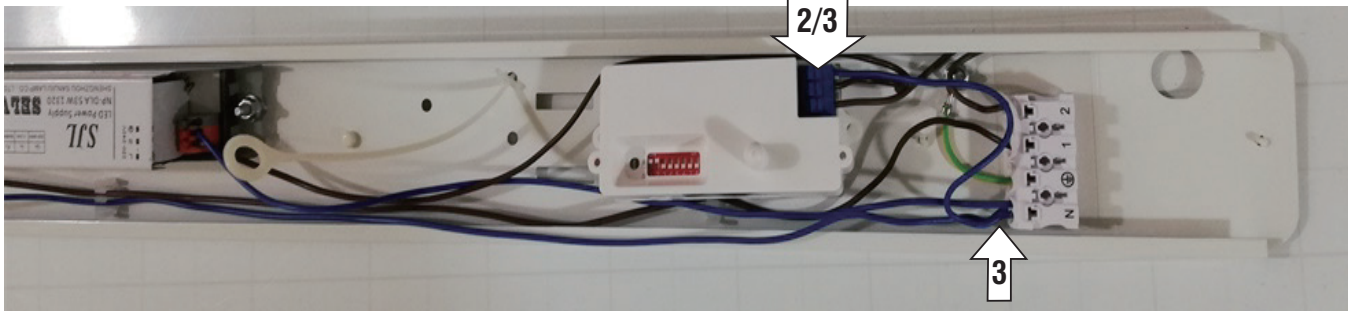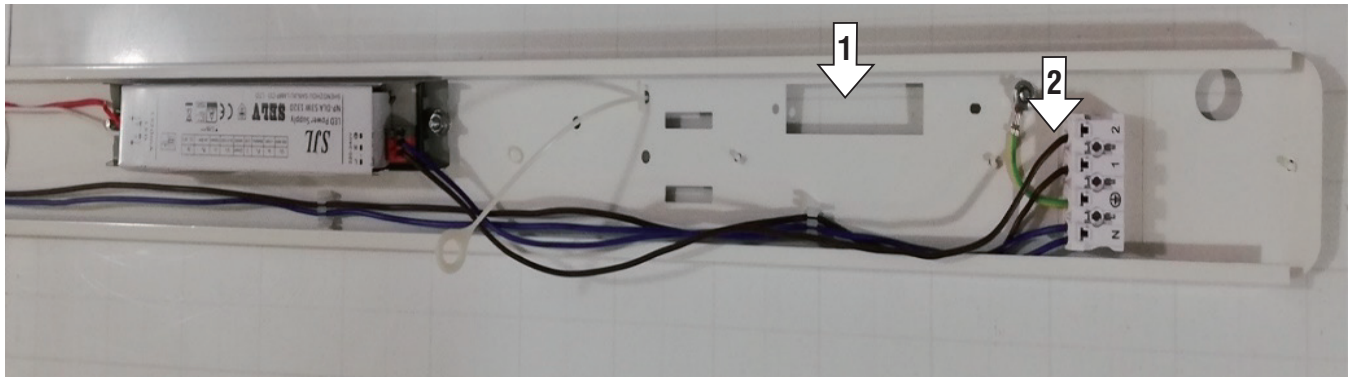
Mordax EM 72711 with Sensor

Accessories:

94057 Mordax Sensor

Connector x 2
(not supplied)

01. Locate the 94057 sensor position.
02. Cut off two brown wires between terminal's **2**(**Ls**) and NO.1 & NO. 2 LED drivers in the appropriate length. Connect terminal's **2**(**Ls**) to sensor's **L** with one of the brown wire, and take off the other one, use it to connect sensor's **L'** to one connector (A).
03. Connect two brown wires of NO.1 and NO.2 LED driver to the connector (A).
04.1) Locate the blue wire between No.1 driver and terminal's **N**, remove it from terminal, and then insert it into connector (B);
    2) Locate the blue wire between No. 2 driver and terminal's **N**, remove it from terminal, and then insert it into connector (B).
05. Take blue wire in the appropriate length, connect terminal's **N** to the connector (B).
06. Take blue wire in the appropriate length, connect terminal's **N** to sensor's **N**.
07. Install the 94057 sensor controller.

Press the terminal with the tool supplied, and then take off the wires