

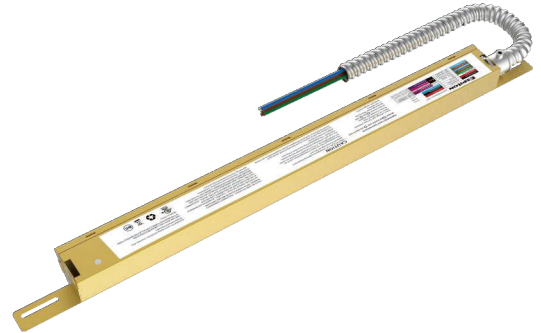
FEATURES

- * Suits for most 3W-120W LED luminaire, 15W-120W Led luminaire requires the 0/1-10V dimming function.
- * Use with lithium battery.
- * Accessory test button and LED indicator.
- * Remote control optional, easy for testing.

ELECTRICAL SPECIFICATIONS

- * Input voltage: 100-347VAC, 50/60Hz
- * Input current: 0.08A max
- * Input power: 8W Max
- * Power factor: 0.6 @100VAC, 0.5@347VAC
- * Input of LED load: AC 6A Max
- * Output voltage: 150V-200V DC
- * Battery: Lithium
- * Recharge duration: ≤24Hrs
- * Emergency duration: ≥90mins
- * Ambient temp: 0-50°C(32°F-122°F)

ES-EIH-01S SERIES



- ES-EIH09-01SL • ES-EIH09-01SR
- ES-EIH15-01SL • ES-EIH15-01SR



Remote control

Self  Test

MODEL SELECTION TABLE

Models	ES-EIH09-01SL	ES-EIH09-01SR	ES-EIH15-01SL	ES-EIH15-01SR
Emergency wattage	9W	9W	15W	15W
Battery capacity	11.1V 2000mAh	11.1V 2000mAh	11.1V/3200mAh	11.1V/3200mAh
Compatible led fixture	9-80W LED lamp with 0-10V dimming or LED lamp less than 9W without 0-10V dimming	9-80W LED lamp with 0-10V dimming or LED lamp less than 9W without 0-10V dimming	15-120W LED lamp with 0-10V dimming or LED lamp less than 15W without 0-10V dimming	15-120W LED lamp with 0-10V dimming or LED lamp less than 15W without 0-10V dimming
Mounting configuration	Left single flex	Right single flex	Left single flex	Right single flex

NORMAL MODE

Fixtures will operate normally when power is available. When an outage occurs, the fixture will switch to emergency mode, delivering power to the fixture for up to 90 minutes.

EMERGENCY MODE

1. The emergency battery backup enters the emergency mode immediately after the mains power failure.
2. Stop the emergency and return to the charging state after the mains power call.

SELF-DIAGNOSTIC

MONTHLY SELF-TEST

It will automatically perform a monthly self-test every 30 days with a duration of 30S to check whether the emergency function is normal, and automatically restore to normal charging after 30S discharged.

ANNUAL SELF-TEST

An annual self-test will be done every year (12 months) with a duration of 90mins to check whether the capacity of the battery pack is normal, and automatically restore to normal charging after fully discharged. (the condition of annual test is that the battery pack is fully charged). If the annual inspection is interrupted, it will be retested after recovery and when the test conditions are met. (Possibility of interruption: such as sudden power failure, sudden manual test).

TEST BUTTON & LED INDICATOR

Operations	Test button operations	Remote control operations	Indicator status	Working status
Normal mode	Press the test button	Press button A	OFF	Emergency mode
	/	Press button B	OFF	Monthly testing
	/	Press button C	OFF	Annual testing
	/	/	ON	Battery is charging or fully charged
Emergency mode	Press the test button 5S	/	OFF	Turn off the battery pack
Malfunction mode	/	/	Flashing	1.The battery pack is disconnected or it is broken. 2.The load is disconnected. 3.Short circuit or open circuit.

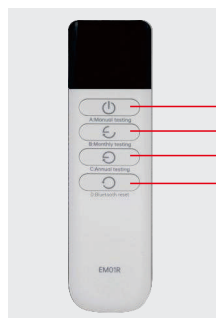
ACCESSORIES



15pcs wire nuts



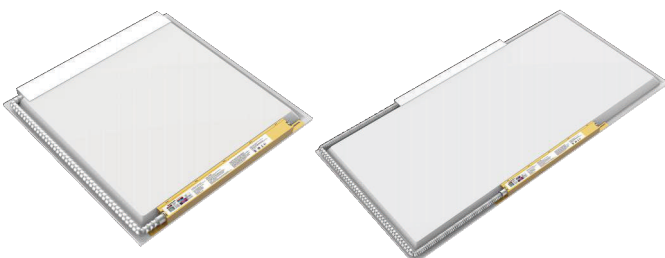
1pc test plate



1pc remote control
*Optional

- A: Manual testing
- B: Monthly testing
- C: Annual testing
- D: Bluetooth reset

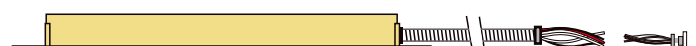
MOUNTING CONFIGURATION



Left single flex

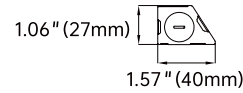
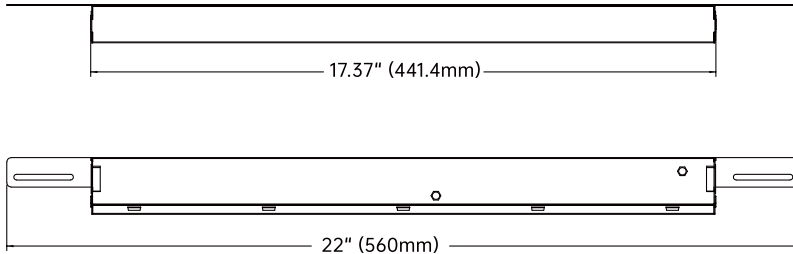


Right single flex



DIMENSION

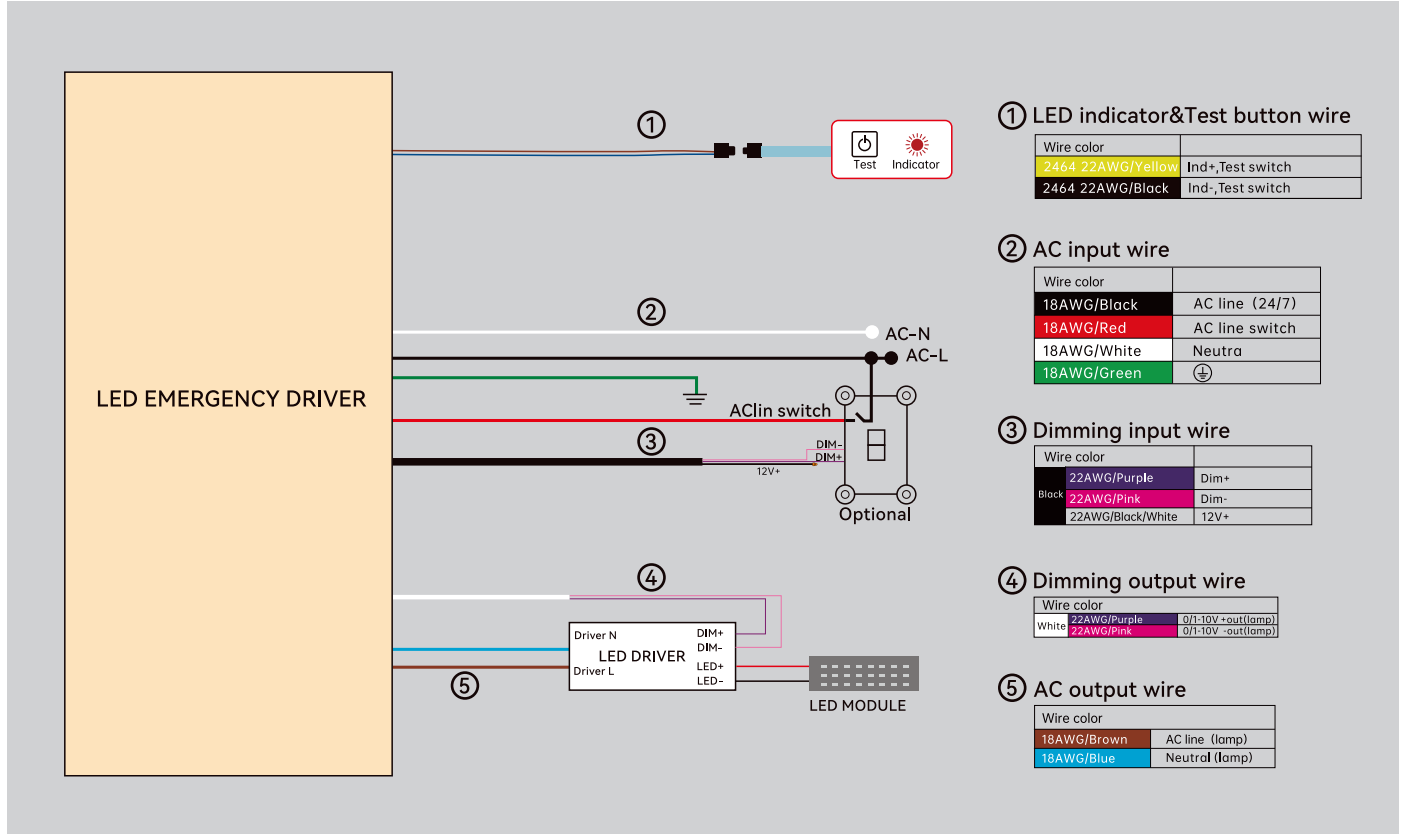
Model	L	W	H
ES-EIH-01S SERIES	22" (560mm)	1.57" (40mm)	1.06" (27mm)



WIRING DIAGRAM

A: With dimmer, when power of luminaire \geq power of EM, the wiring diagram as below:

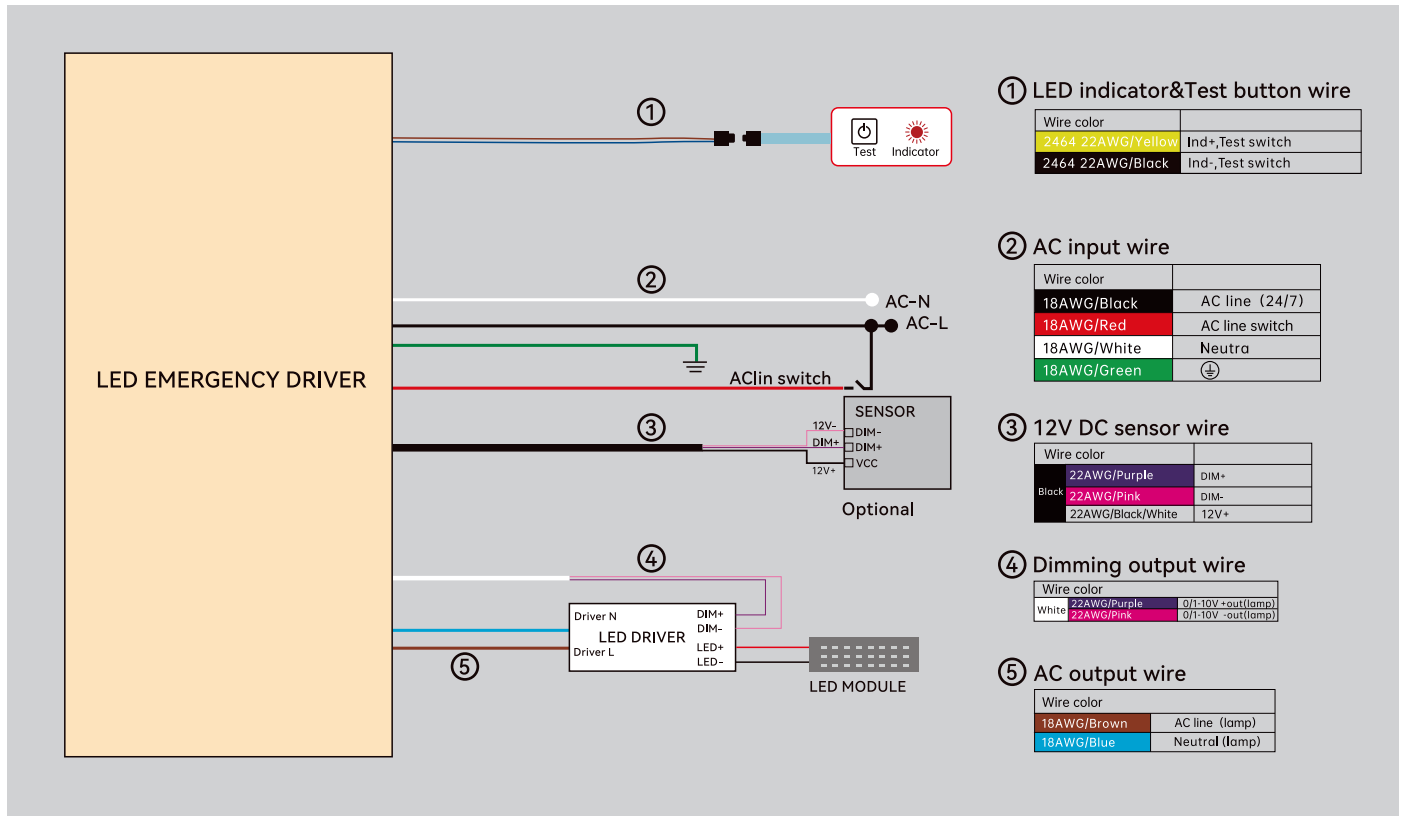
* The output dimming wires of Emergency Driver must be connected with the input dimming wires of the LED Driver.



⚠ Warning: Sensor and dimmer cannot be used at the same time!

B: With sensor, when power of luminaire \geq power of EM, the wiring diagram as below:

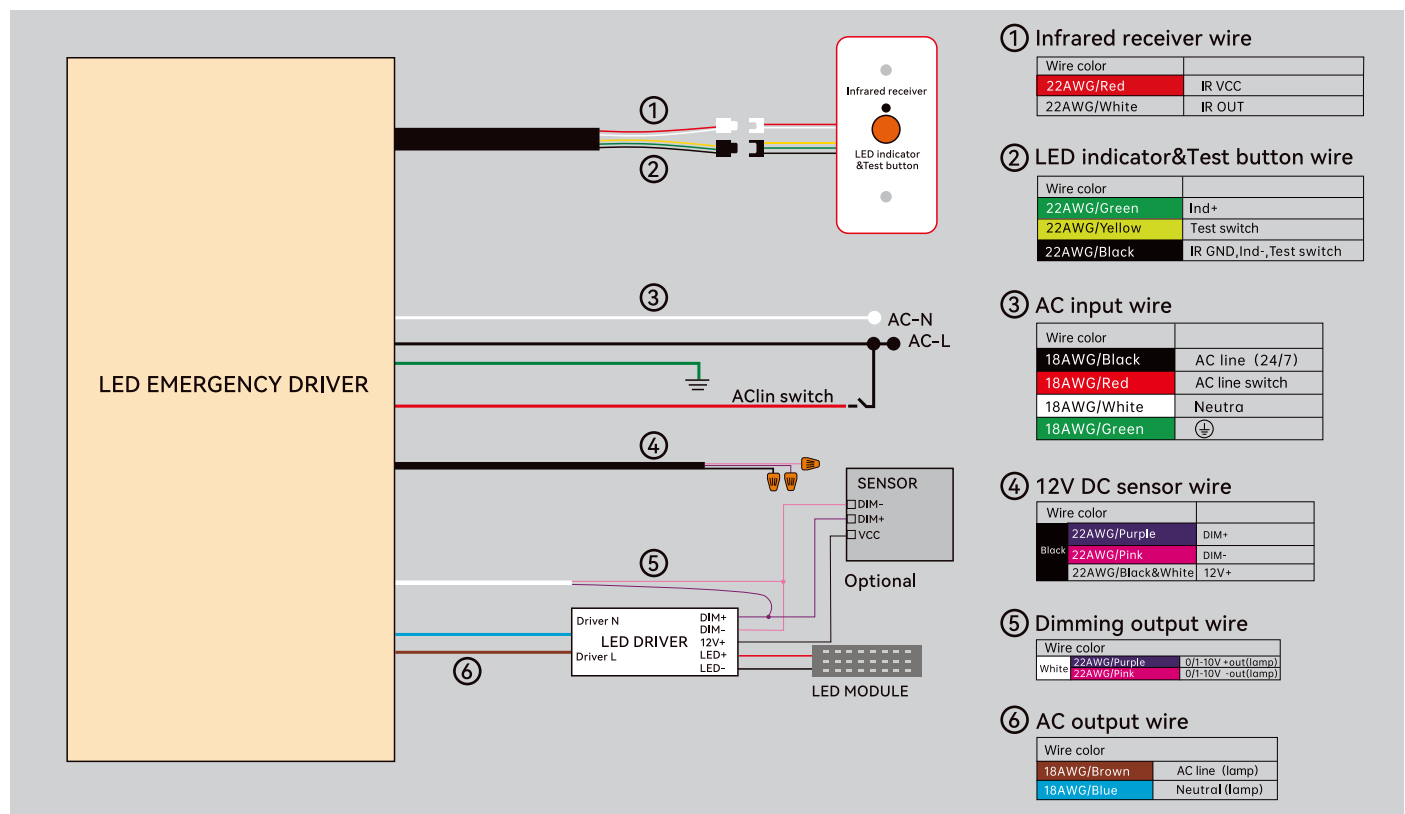
* The output dimming wires of Emergency Driver must be connected with the input dimming wires of the LED Driver.



Warning: Sensor and dimmer cannot be used at the same time!

B-1: With HAISEN sensor (HD08VR family, HD09VR family), when power of luminaire \geq power of EM, the wiring diagram as below:

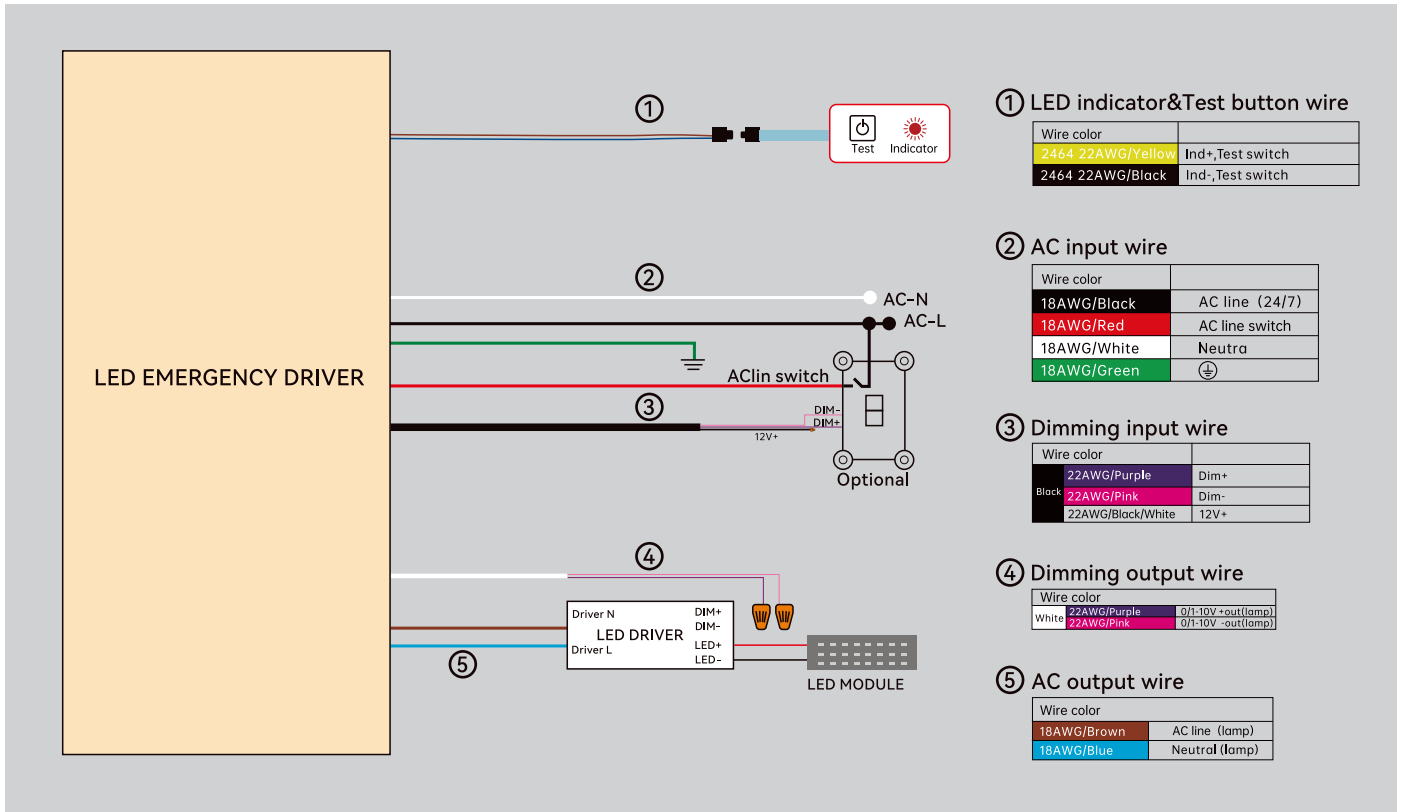
* The output dimming wires of Emergency Driver must be connected with the input dimming wires of the LED Driver.



Warning: Sensor and dimmer cannot be used at the same time!

C: With dimmer,when power of luminaire<power of EM,the wiring diagram as below:

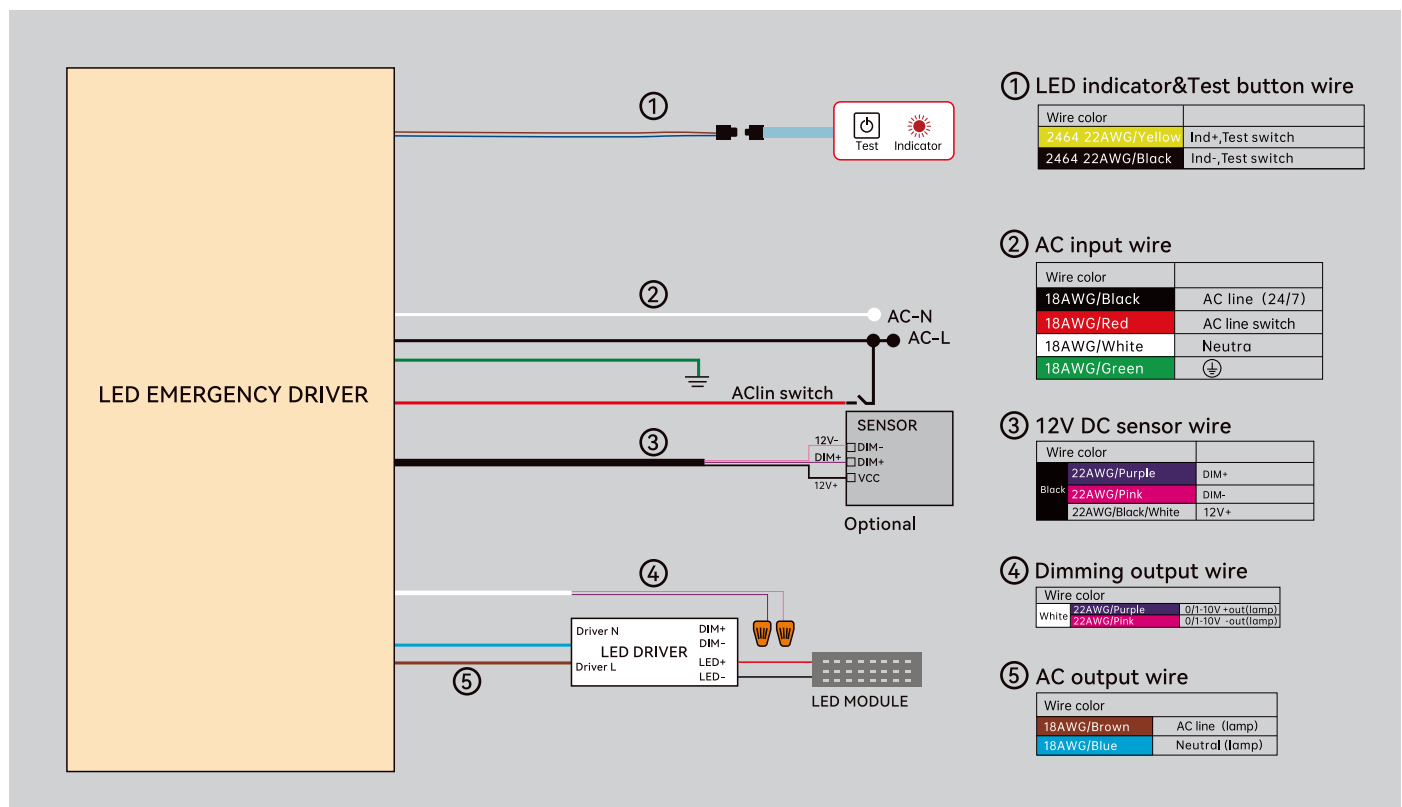
* The output dimming wires of Emergency Driver must not be connected with the input dimming wires of the LED Driver.



⚠ Warning: Sensor and dimmer cannot be used at the same time!

D: With sensor,when power of luminaire<power of EM,the wiring diagram as below:

* The output dimming wires of Emergency Driver must not be connected with the input dimming wires of the LED Driver.



⚠ Warning: Sensor and dimmer cannot be used at the same time!

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:



1. CAUTION – To prevent electrical shock, do not mate unit connector until installation is complete and A.C. power is supplied to the unit.
2. CAUTION – This fixture provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the A.C. branch circuit and by disconnecting the unit connector.
3. CAUTION – This is a sealed unit. Components are not replaceable. Replace the entire unit when necessary.
4. CAUTION – Installation and servicing should be performed by qualified personnel only. De-energize before opening.
5. The EIH is for use with grounded LED luminaires listed to UL standards. Not for use in heated air outlets or hazardous locations.
6. The EIH requires an unswitched A.C. power source of 100 to 347 volts, 50/60 Hz.
7. The EIH and A.C. driver must be on the same branch circuit.
8. Do not mount near gas or electric heaters.
9. The EIH should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
10. The EIH will supply 145 VDC output at the individual rated specification for 90 minutes.
11. Suitable for use in damp locations and plenum spaces.
12. Flexible metal conduit is optional, depends on installation environment.
13. For use in 0° C minimum, 50° C maximum ambient temperatures.
14. Do not use this equipment for other than intended use.
15. Install in accordance with the National Electrical Code and local regulations.
16. Lighting fixture manufacturers, electricians, and end-users need to ensure product system compatibility before final installation.