

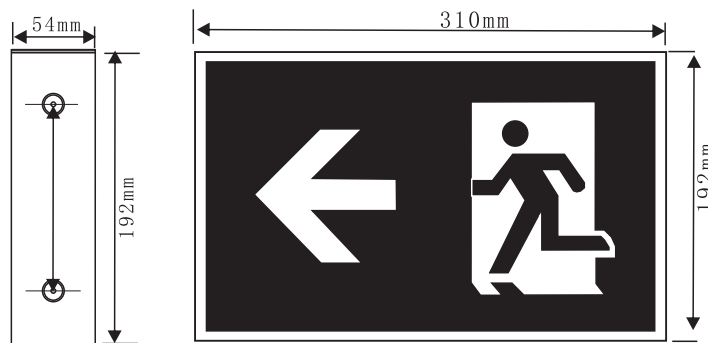
1.DESRIPTION

This emergency light features a painted steel housing and a simple, modern design. A universal mounting pattern and keyhole slots are stamped on the back, while conduit openings are provided on the sides of each unit.

2.CIRCUITRY

Models Input voltage	TLSEMU01	Electrical parameters	TLSEMU01-UDC
AC120V 50/60Hz	Input Wattage: 3W	Working voltage:120V-347V 50Hz-60Hz	Input Wattage: 2W
	Input Current:0.014A	Recharge time: 24 Hours	Input Current:0.08A
	Efficiency: 0.98P	Output Wattage:1W	Efficiency: 0.96P
AC277V 50/60Hz	Input Wattage: 3.5W	Light Source: Ultra bright LED	Input Wattage: 2.5W
	Input Current:0.019A	Plug in LED:(1)E:SMD 2835LED Red	Input Current:0.08A
	Efficiency: 0.92P	(2)RM:SMD 2835LED White	Efficiency: 0.92P
AC347V 50/60Hz	Input Wattage: 4W	Emergency duration: ≥ 2 Hours	Input Wattage: 3W
	Input Current:0.024A	Lead-Acid Battery 3.6V/1000mAh	Input Current:0.08A
	Efficiency: 0.92P	Product Size: 192*310*54/mm	Efficiency: 0.91P

3.PRODUCT SIZE



4.ATTENTION

- 4.1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- 4.2. For Indoor use ONLY.
- 4.3. Do not let power cords touch hot surfaces.
- 4.4. Do not install near gas or electric heaters.
- 4.5. Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.
- 4.6. Equipment should be mounted in locations and at heights where unauthorized personnel will not readily subject it to tampering.
- 4.7. The use of accessory equipment not recommended by manufacturer, may cause an unsafe condition, and will void the unit's warranty.
- 4.8. Do not use this equipment for other than its intended purpose.
- 4.9. Servicing of this equipment should be performed by qualified service personnel.
- 4.10. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

5.INSTALLATION INSTRUCTIONS

5.1.Wall Mount (Single Face Only):

5.1.1. 1. Extend unswitched 24 hour AC supply of rated voltage to a junction box (supplied by others) installed in accordance with all applicable codes and standards. Leave a minimum of 8 inches of slack on the wire. This circuit should NOT be energized/live at this time.

5.1.2. 2.Remove the faceplate.Remove and discard the canopy kit located inside the sign cavity (Fig. 1).

INSTRUCTIONS

5.1.3. For installation directly over on an electrical junction box, the sign is supplied with universal spider knockouts stamped into the backplate. Alternatively, conduit knockouts are stamped into the top and side for surface wire conduit connection (Fig. 3). Knock out the appropriate holes and bring wires through the hole and outside the sign.

5.1.4. For installation directly over the electrical junction box, the sign is supplied with universal spider knockouts and keyhole slots stamped into the back of the powerpack. Alternatively, conduit knockouts are stamped into Steel frame rear cover for surface wire conduit connection. Knock out the appropriate hole(s) and bring wires through the hole(s) and into the powerpack (Fig. 2).

5.1.5. Mount the unit securely into place. Do not rely on the electrical connections as the only support for the unit; use supplied keyhole mounting slots (Fig. 2).

5.1.6. Make proper wiring connections between the AC supply and the unit's transformer: White - Black - Line 120V-347 Volts; Green - Line Earth;

Yellow wire: 6V to 24V/DC positive(+); Purple wire: Negative(-) (Fig. 5).

BROWN is provided instead of RED for special voltages (Fig. 4).

Insulate unused wire! Connect ground to supplied green ground wire in accordance with local codes. Reassemble all wire connections and connectors.

CAUTION! - Failure to insulate unused wire may result in a shock hazard or unsafe condition as well as equipment failure.

5.1.7. Secure all internal wires.

5.1.8. Mount the sign securely into place.

5.1.9. Knockout and remove any required directional chevron/arrows from the sign faceplate (Fig. 2).

* For "RUNNING MAN" units take out protective plastic on the fiber before installing (Fig. 2).

5.1.11. Slide the faceplate and red stencil fibre (for the sign "EXIT" or "SORTIE") or "RUNNING MAN" fibre into the sign frame, then replace and secure the face plate with screw.

5.2. Ceiling or End Mount (Single or Double Face):

5.2.1. Follow Steps 1 to 3 of Wall Mounting except DO NOT discard the canopy kit located inside the sign.

5.2.2. If double face is required, remove the backplate and install the second faceplate.

5.2.3. A single wire pass-thru and a pair of canopy screw knockouts are stamped into the top and also the end of the sign. Knock out the appropriate set of three holes; top holes for ceiling mount or end holes for end wall mount (Fig. 4).

5.2.4. Feed all wiring outside the sign through the wire pass-thru hole.

5.2.6. Follow steps 4 to 11 of Wall Mounting to complete installation.

NOTE: Secure the canopy to the sign using the supplied hardware. Mount the sign securely to the wall or ceiling. The hole spacing in the canopy is designed to fit most standard electrical junction boxes. A steel, universal spider plate is supplied to allow mounting to alternate size/type boxes (Fig. 4).

6. OPERATION

6.1. AC only & AC/DC models

6.1.1. Sign will illuminate when supplied with power.

6.2. Internally Self-Powered models only

6.2.1. To Test, depress the TEST Switch. The AC indicator will go out and the LEDs will switch to battery power.

6.2.2. Release the TEST Switch. The LEDs will switch back to AC power and the AC indicator will come on.

7. MAINTENANCE:

7.1. Code requires that the equipment be tested every 30 days for 30 seconds, and that written records be maintained for all test results and repairs. Further, the equipment is to be tested once a year for the required duration as per Code. The battery is to be replaced or the equipment repaired whenever the equipment fails to operate as intended during the duration test. The manufacturer strongly recommends compliance with all Code requirements.

7.2. Clean lenses on a regular basis to provide maximum light distribution in case of an emergency.

NOTE: The servicing of any parts should be performed by qualified service personnel only. The use of replacement parts not furnished by the manufacturer may cause equipment failure and will void the warranty.

8. TROUBLESHOOTING HINTS

SIGN DOES NOT LIGHT UP / TURN ON AT ALL

INSTRUCTIONS

- 8.1. Check AC supply - be sure unit has 24 hour AC supply (unswitched).
- 8.2. Check AC connector. The transformer/capacitor input power assembly is connected to the LED circuit board with a plastic connector. Insure that this connector is firmly plugged into the LED circuit board. The connector will only lock into place when inserted with the correct orientation.
- 8.3. Check AC connections to transformer/capacitor assembly. Insure that input voltage wiring matches the markings on the transformer/capacitor assembly wires being used.
- 8.4. AC supply and connections are OK and LEDs fail to light; replace LED Board Assembly.

SIGN TURNS ON DIM WHEN AC POWER IS ON

- 8.5. Check supply voltage and AC connections. The AC supply must be at least 80% of nominal (96V on a 120V line) for equipment to function normally. At lower voltages, the LEDs may begin to glow dimly until the source voltage drops below the full batteries turn-on point.
- 8.6. Check AC connections to transformer/capacitor assembly. Insure that a 120 Volt supply line has not been connected to the 347 Volt transformer/capacitor lead wire.

SIGN COMES ON WHEN BATTERY IS FIRST CONNECTED (NO AC)

This is normal when the battery has enough charge to power the LEDs. The sign will remain lit until the battery is discharged.

SIGN COMES ON DIM WHEN TEST BUTTON IS PRESSED

Internally Self-Powered Signs Only

- 8.7. Battery is severely discharged. Allow 24 hours for recharge and then retest. NOTE: This could be the result of a switched AC supply to the unit (which has been turned off at some point), a battery with a shorted cell, an old battery or a battery which has been discharged due to a long power outage and is not yet fully recharged.
- 8.8. If LEDs are still dim on test, replace battery.

Fig.1 panel sign

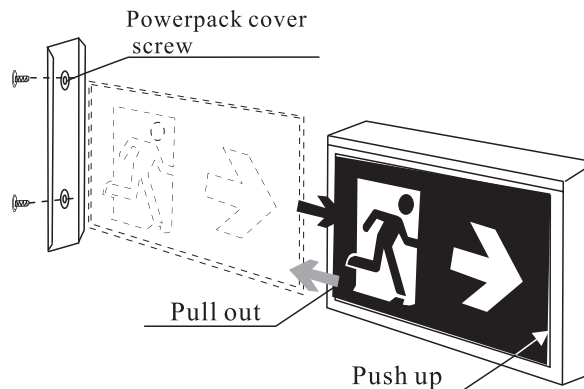
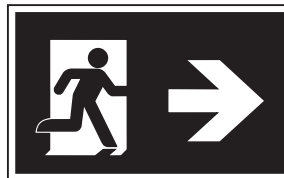


Fig.2

"RUNNING MAN"



Take out protective plastic

INSTRUCTIONS

Fig.3

Wall mount

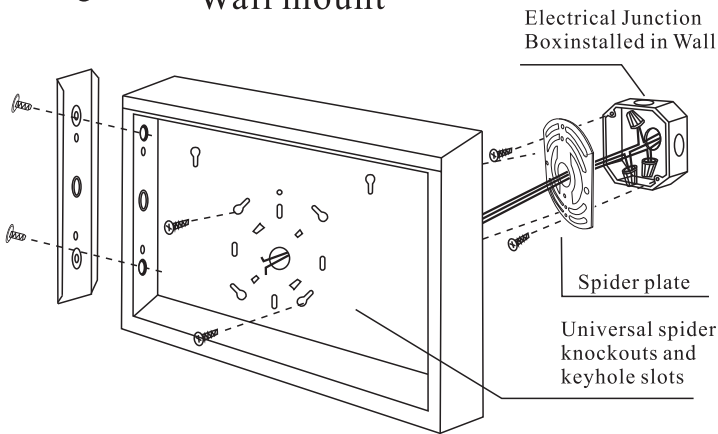
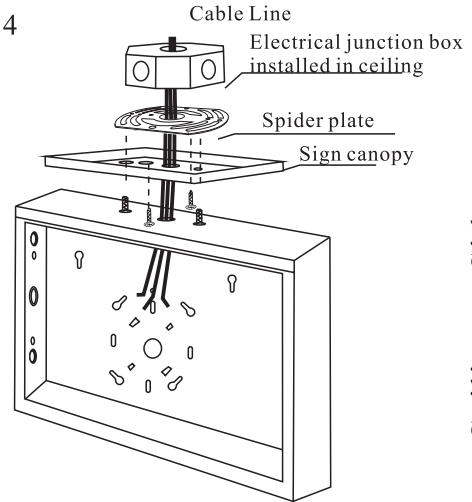


Fig.4



Ceiling or Side mount

Fig.5

Black Wire (L)
AC120V-347V

White Wire (N)

Green Wire (E)

AC/SP WIRING



Black Wire (L)
AC120V-347V

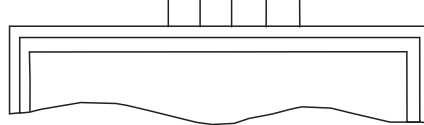
White Wire (N)

Green Wire (E)

UDC Wiring Diagram

Yellow wire:6V to 24V/DC(+)

Purple wire:Negative(-).



WIRING DIAGRAM

AC Wiring

Working voltage:AC120V-347V 50Hz/60Hz

Black Wire (L)

White Wire (N)

Green Wire (E)



UDC Wiring

Yellow wire:6V to 24V/DC positive(+)

Purple wire:Negative(-).

AC and UDC cannot be imported simultaneously

Fig.5

