

SkyWay LED Modular System Installation Information

Preparation

1. **NB: Ensure electrical supply is isolated before fitting and/or making any electrical connections.**
2. Mark the mounting surface for fixing the wire suspension kits which are supplied separately. The fixing centres for the kits are 103mm and Hacer recommends that suspensions should be fitted at a maximum of 1550mm centres and/or at joints between adjacent modules. Several keyhole arrangements are available on the back of each module, select the desired ones and mark the mounting surface accordingly.
3. Choose the location where the mains/dimming cable should enter the system. Most of the modules have an electrical knock out located on the rear face.
NB: The wiring harness is rated at 16A, if the entire system has a larger current then the system should be spilt and several mains cables will be required.
4. Make provision for fixing the luminaire to the mounting surface.
5. **NB: Ensure correct fixing method and bolts/screws are used for both the mounting surface type and the weight of the entire SkyWay system.** The hole diameter in the suspension bosses/plates is 5mm.
6. Separate the suspension bosses by unscrewing the wire retaining parts from the ceiling bosses.
7. Fix the ceiling bosses, sandwiching the suspension plate between the bosses and the mounting surface.
8. Screw the wire retaining parts back into the bosses ensuring they are screwed up tightly and unfurl the suspension wires so they hand loose ready for module installation.
9. Remove the rear covers on the back of each module by gently easing them to pop out the nylon fasteners and retain the fasteners.
TIP: Number the covers and modules (on the inside so not visible) in pencil in sequence of removal.
10. Fit the suspension clutches to the modules to match the suspension wire spacings as fitted to the mounting surface. Fit the clutches to the keyholes and turn until tight against the module and secure by tightening the Allen bolts in the side.
11. Loosen the knurled head of the suspension clutches slightly but do not completely remove.

Installation

1. Offer the first module in the system up to the relevant suspension clutches.
NB: This is a two person operation.
2. Pass the suspension wires through the suspension clutches by pushing down on the knurled head. The clutch will re-engage when knurled head is released which will support the module temporarily.
3. Set the module to the specified height and level by adjusting each clutch accordingly.
4. Re-tighten the knurled head of the suspension clutches.
NB: Do not cut away any surplus suspension wire at this point.
5. **NB: This suspension system is designed to be set once only and should not be repeatedly moved as this may weaken the cable below the clutch.**
6. Offer up the second module and feed the wiring harness through the 20mm in the end cap into the adjacent module.
7. Suspend and level in the same manner ensuring it is correctly aligned with the first module.
8. Physically join the first module to the second module using the hex head bolts and nuts supplied.
9. Repeat this operation to complete the entire system.



THE SILVERLINK, WALLSEND, NEWCASTLE UPON TYNE, TYNE & WEAR, NE28 9ND

TECHNICAL: (0191) 280 9914

FAX: (0191) 263 0946

E-MAIL: technical@hacer.co.uk








WEB: www.hacer.co.uk

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Wiring

1. Each module is supplied pre-wired with a 16A seven wire harness and push fit terminals to offer quick and efficient electrical connection to the adjacent module in the system.
2. Starting with the first module in the system, connect the wiring harness to the adjacent module by pushing each wire into the correct piano key terminals on the connector block.
3. Repeat to complete the wiring of the entire system.
4. **NB: For systems where two or more mains supplies are used, the electrical connection between modules where the supply is split should not be made.** The harness should be removed at this point by pressing down on the piano keys on the connector block. If the harness is not removed it should be made safe by fitting insulating caps to each individual cable.
5. The harness in the last module in any run should be removed by following the point above.
6. **NB: For any emergency modules, ensure battery connection is made only when a permanent mains supply is present.**
7. To complete the wiring, connect the mains/dimming supply/s at the chosen point/s to the relevant connector block. A 20mm cable gland should be fitted to the module to restrain the cable/s.
8. Reconnect the electrical supply and test the installation.

Installation information for emergency packs

	BLACK	- Live (Emergency Unswitched)
	BROWN	- Live
	GREEN/YELLOW	- Earth
	BLUE	- Neutral
	ORANGE	- Not used
	RED	- Used for dimming systems, see notes below
	White	- Used for dimming systems, see notes below

1. Remove rear cover of fitting.
2. Connect lamp cables to corresponding colours marked on connector blocks (if not already connected).
3. Fit cable glands (not supplied) for mains/dimming cables.
4. Connect mains/dimming cables according to information below.
5. NB - Make battery/inverter connection before replacing lid.
6. Replace rear cover of fitting.

The WHITE and RED terminals should be used as follows:

Digital Dimming (Gear types: F, G and V)

WHITE - DSI Signal RED - DSI Signal

DALI Dimming (Gear types: C, S, T and U)

WHITE - DALI Signal RED - DALI Signal

Analogue 1-10V Dimming (Gear types: H, I and W)

WHITE - Negative (-) RED - Positive (+)

Switch Dimming (Gear types: J, K and Y)

WHITE - Not used RED - Live (Dimming Switched) BROWN - Live (Unswitched)

Completion

1. **NB: Ensure electrical supply is isolated before completing the final steps.**
2. Fit the module end caps to any open ends of the system using the nuts supplied.
3. Re-check that the entire system is level and at the specified height. When satisfied, any surplus suspension wire can now be cut away. **NB: This suspension system is designed to be set once only and should not be repeatedly moved as this may weaken the cable below the clutch.**
4. Re-fit the rear covers in the order that they were previously marked using the nylon fasteners.
5. Reconnect the electrical supply and test the installation.

WARNING!

This system uses electronic control gear. Disconnect system from mains supply before carrying out any high voltage insulation tests.